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BALTIMORE, APRIL 28, 1910,

ON THE WRONG TRAIL.

President Taft is not the first public man at Washington to be misled into thinking that a thing is representative of substantial Southern interests simply because it uses the adjective Southern.

SPONGES

It is reported that the latest philanthropy organized in New York is the Society for the Prevention of Cruelty to Sponges, said sponges, it is alleged. suffering greatly by being compelled to lie in the hot sun after being fished up from the sea. The philanthropy most needed in New York city is the Society for the Suppression of Sponges, which would have comfortable occupation for some time in bringing an end to a myriad of philanthropies in the metropolis organized for the purpose of cre ating salaries for their originators, and, consequently, preventing sponges from becoming of use to mankind. They are

A LIVE MAN.

John H. Beall of St. Louis, general passenger agent of the Mobile & Ohio Railroad, is the livest publicity agent of the Appalachian Exposition loose outside of Knoxville, as far as we have observed. He attended the banquet of the Appalachian Press Association at Knoxville early this month, and was so impressed with the possibilities in the exposition which is to be held next fall that he went straight back home, and ever since has been stirring things up in St. Louis in favor of that city's taking advantage of the exposition to

advance the interests of St. Louis and Missouri. He has been appointed commissioner for St. Louis, and no one can doubt that his intelligent zeal will result in his city's seizing the opportunity to strengthen and extend its trade relations with the Southeast.

The Appalachian region, stretching from the Pennsylvania line into Alabama and embracing the greater part of the timber and mineral and waterpower resources of Maryland, Virginia, West Virginia, Kentucky, Tenn North Carolina, South Carolina, Georgia and Alabama, is one of the most potential regions on the globe. Its de velopment is of vital importance to the whole South and to the country, and the exposition to further that development is an undertaking appealing to every live Southern community and to other cities that must benefit if they participate in that development. Mr. Beall has aroused St. Louis to a realization of that fact. What are Chicago, Cincinnati and Baltimore doing in that respect?

THE POSTAL DEFICITS

According to a dispatch to the New York Sun from Washington, receipts from nearly every postoffice in the coun try this year have increased so greatly that the postal deficit is rapidly being wiped out, and it looks as though the Postoffice Department will be able to arrounce on June 30 next that it is selfsustaining for the first time in many years. Less than six months ago the Postoffice Department was the medium for an attempt to create a public opinion to the effect that a so-called deficit of about \$18,000,000 annually in the Postoffice Department was caused by the low rate upon second-class mail matter, especially magazines and other periodicals not daily. Cultivators of such an impression did not announce their purpose, but it was obvious that should the public opinion take form in the legislation that was contemplated many excellent publications would be confined to restricted areas of usefulness to the public, if, indeed, they would not be utterly suppressed, while it would have been impossible for new publications to come to life. In the drive against second-class mail by way of the National Government were the possibilities of the creation of the biggest sort of a trust, and a most dangerous trust at that, dominating the main agencies of public opinion.

There have been a few combinations in second-class publications, but the Manufacturers' Record has heard of none of any standing quitting publication. The postal rate on second-class matter is the same as it was six months ago, yet, with just as many second-class periodicals published and carried by the postoffice at the same rate, there is the prospect of the Postoffice Department not having a deficit.

The fault with the Postoffice Department cannot be loaded upon second-class periodicals. If the methods prevailing country, appreciating that it is no local

in the Postoffice Department should be adopted by second-class periodicals in the country, they could not live six months. They would be financial wrecks. If the business methods controlling the conduct of successful second-class periodicals — first class in everything but postal regulations—could by any possibility be introduced into the Postoffice Department, that branch of the Government would become a revenue producer. But who in the world can expect business benefits from a political machine except by accident?

NORTH CAROLINA ROADS.

North Carolina spent \$1,052,890 or roads in 1909, of which \$649,190 were for new roads and \$403,700 for maintenance, the greater part of the latter sun for repair of dirt roads. The aggregate expenditure does not include the work in 19 of the 98 counties of the State, where practically all the repairs were made under the old system of tax paid by labor. Of the 403 miles of improved roads constructed, 163 miles were of sand clay, costing \$90,000: 13114 miles of macadam, costing \$502,490, and 1081/ miles of gravel, costing \$56,700. The average cost per mile was \$3821 for macadam, \$552 for sand clay and \$513 for gravel. The comparatively low average per mile for both macadam and gravel is explained in the bulletin of the Southern Appalachian Good-Roads Association by the fact that some of the roads had been already partly graded or needed no large amount of grading before surfacing.

That is a fairly good showing on the part of a State which was a pioneer improved road construction in the South, but it is but an index to the healthy spirit prevailing in that State and most recently manifested in the enthusiastic determination to provide a first-class highway across the State connecting Charlotte with Knoxville by way of Asheville and bring part of s system in the Appalachian Highlands, linking Charlotte, Spartanburg, Atlanta. Knoxville, Hendersonville, Greenville and other cities, and opening up to tourists a section of the country hardly yet appreciated as it should be by healthseekers and those on pleasure

THE APPALACHIAN RESERVE.

The bill providing for the creation of forest reserves in the Southern Appa achian region and in the White Moun tains of New England has been favor ably reported to the House of Repre It should be pushed sentatives. through Congress and be made law. It is difficult to understand why the Congress should dilly-dally with this most important measure. It has been before one or both houses of the National Legislature for several years. It is supported by scientists, by intelligent public men and by material interests or many kinds in different parts of the

project, but one affecting the welfare of the United States. But there is some influence that has managed heretofore to hold it up.

In the Southern Appalachians are the headsprings of great rivers that are important arteries of internal trade and contributors to the foreign trade of the country, on the one hand, and, on the other, sources of power for industries aggregating not less than 5,000,000 horse-power when electrically developed. Upon the regular flow of these streams depends in great measure the success of agricultural undertakings in probably a third of the productive area of the United States. When the remnants of primeval forests now crowning the Appalachian highlands shall disappear and no growth replace them, commerce, manufacturing and agriculture will be seriously menaced. The mediums for the proper feeding and protection of headsprings will have passed and the springs will not exist. Rivers whose flow can be regulated as long as the forests are preserved will become dry beds, almost at one sea and raging and destructive torrents at another. Their courses will be shallowed beyond the possibility of navigation, and their industrial potentiality. now neglected in great measure, will ecome a thing of naught.

This disaster can be averted by a proper and reasonable conservation policy looked to in the bill now before Congress. Friends of that measure on the ground at Washington, and fully acquainted with all the circumstances, should discover what influences retard it and without hesitation let the country know. It is believed that the embarrassing influences would not be sustained by the people of the United States,

WHAT OF COTTON WITHIN THE NEXT TWELVE MONTHS?

Unprecedented weather in portions of some of the cotton-growing States, added to the failure of a cotton-brokerage firm in Alabama with wide connections, affecting principally foreign interests, has created a situation compelling everybody concerned about cotton, from the planting of the seed to the marketing of the finished products, to give serious thought to the outcome as to cotton during the next 12 months.

At the outset it should be noted that, statistically, the Southern cotton mills are in a better position than the mills of any other section in the world. They seem to have been less affected than any other group of mills, as far as buying cotton was involved, by the deliberate drive led by foreign textile manufactur ers against the price of cotton instituted at the beginning of the commercial year, now two-thirds past. They were in a position to know that a short crop justified an advance in price, and they had the good sense to act upon such knowledge and to buy cotton when they could instead of attempting to beat down the

price artificially. Consequently, the fected very serious, the supply of seed Southern cotton mills have taken already more cotton than the mills in the rest of the country. This has happened two or three times before, but it is believed never before so early in the sea-According to the figures of Col. Henry G. Hester, secretary of the New Orleans Cotton Exchange, Southern mills had taken up to April 22 nearly 15,000 bales of cotton more than the mills in the rest of the country had taken. The takings by Southern spinners up to that date were only 52,059 bales less than their takings in the same period last season, while the 1,-800,413 bales taken by spinners in the rest of the country were 546,995 bales less than their takings in the same period last season, and the 5,180,143 bales taken by foreign spinners, not including 52,292 bales returned to this within the past few weeks, were 2.144,224 bales less. In the first eight months of the season foreign spinners have taken 3,268,906 bales than they took in the whole of last season, the spinners in the United States outside the South 879,587 bales less, and Southern spinners 744,000 less About 1,000,000 bales of the 1909 crop are yet to come upon the market. The call of the world's mills during the next 12 months under normal conditions would be for at least 18,000,000 bales If their spindles are to be kept active. The world's requirements are now on a scale that makes a crop of 14,000,000 bales in the South almost a necessity if great distress is to be averted in textile centers already caught short of supplies as a result of the campaign based upon the fallacy that a smaller crop could be bought at the same price as a large crop, if not at a less price

It must be borne in mind that that side of the cotton market interested in having cotton rule at the highest possible price, including the growers and those closely allied to them, as well as the bulls in the speculative class, will make the most of the reports of damage to the cotton. These reports are probably exaggerated. Some days must elapse before the growers may recover from the apprehension, due to the unwonted weather conditions, sufficiently to pass a fair judgment upon the situation and determine to what extent replanting may be necessary. A special dispatch to the MANUFACTURERS' REC-OBD from Alabama, in the heart of that region, from a gentleman who keeps in close touch with all phases of farming expresses the belief that cottonseed in the ground is not damaged, but that probably one-quarter of the acreage where the cotton was up will have to be replanted. He adds that the weather has moderated, and if a warm rain comes conditions will be found to be much better than have been reported, and that the supply of seed obtainable for replanting is ample. Because of the high price of cottonseed this year there was a fear that the cold spell had caught the planters stripped of opportunity to get more seed, but from many other quarters, including oil mills, to the MANUFACTURERS' RECORD the information that there need be no anxiety on that score, as an ample supply of seed, it is claimed, will be

That news is intensely gratifying. Special dispatches from many parts of the South to the MANUFACTURERS' REC-ORD, coming from bankers, oil-mill people and others in close touch with the situation, indicate that while the weather has been very bad, the damage to cotton above ground in the sections af- gines, the smallest of the latter having your great success, but because the pol-

will be sufficient to replant at once. Replanting is often necessary, but in such a condition as the present the new planting is of vital importance, for any disaster to that would be indeed a calamity of worldwide importance. If the South should only produce a small crop this year, it would secure a price which would greatly enrich it, but a short crop would mean calamity to mills throughout the world and to millions of employes. We believe that the South, so far as it is concerned, will rapidly replant, and that, whether it raises a small crop or a fairly large one, will secure for it prices that will yield a big profit. But for the good of the world we hope that the South will produce a large crop. The world badly needs it.

Elsewhere in this issue is published careful review of the situation by Col. A. B. Shepperson, the well-known cotton statistician of New York, together with special correspondence dealing with the supply of cottonseed.

MOTOR CARS GROWING IN FAVOR.

For certain kinds of railroad service motor cars are gradually coming into more general use. Upon branch lines where a small amount of pas traffic has to be provided with facilities, but on which the operation of trains is unprofitable, these new vehicles have satisfactorily solved problems that puzzled operating officers. One of the lines to recently purchase and use a motor car'is the Norfolk & Southern Railway. It has one of the McKeen type, with gasoline for power, and it is succe fully operated upon a division 51 miles long, making one round trip each day. This is the first of these cars to be used ast of the Mississippi River, although a number of them are in operation to the west thereof, where they were introduced several years ago. The first of them was employed in a Southern State-Texas. Now that they have made a debut in the eastern part of our country, it may be anticipated that a wider field for them will be opened up, as well as for other motor cars of different types and patterns. The Southern Railway has lately gotten two of the gasoline-electric cars made by the General Electric Co., and other roads are experimenting with steam motor cars, or some other style of individual self-propelled passenger coaches

The chief advantage of railroad motor cars from the operating man's point of view is their economy. A motorman and a conductor are all the crew really necessary to handle one of them and. consequently, a reduction of expenses can be effected by substituting them for steam trains. The percentage of saving accomplished is important, and consideration of this great advantage makes a strong appeal for an official decision in their favor. They also have a strong attraction in the minds of promoters of comparatively short lines projected in various sections, but es pecially in sundry parts of the South, where passenger service is required at a minimum of expense, and many new roads are now proposed with the idea of operating them (for passenger traffic at least) by some form of gasoline car, although steam locomotives may used for hauling freight. Doubtless the success of several of these new enterprises will depend upon the adoption of motor cars with small crews in preference to trains hauled by steam enat the lowest estimate twice as many men to operate it as does a motor car.

Another significant fact concerning the disposition in different quarters to do away with the use of steam locomo tives is the operation of the Washington, Baltimore & Annapolis Electric Railway and of the Maryland Electric Railway wholly by means of electric cars, so far as passenger service is concerned. The first-named company has a double-tracked line, built in the most approved modern fashion, and operates single cars on a half-hourly schedule each way all day between Baltimore and Washington, its tracks running into the heart of each city, the schedule at night being hourly. It also has a branch to Annapolis, but cars run direct between there and Baltimore and Washington, respectively, at hourly intervals. On the Maryland Electric, between Baltimore and Annapolis, the daytime schedule is every half hour each way, with one hour intervals after dark. A result of the operation of these two roads by electric power is the removal of steam locomotives from the "Ancient City," as Annapolis is locally termed. and they are seldom seen there, excepting when one comes toiling in with a string of freight cars behind it.

But there is an important difference between the conditions which caused the operation of these two roads with single cars propelled by electricity and the circumstances which required certain lines elsewhere to be operated by gasoline or gasoline-electric cars. the case of the former it was the existence of a large and frequent passenger travel, which permitted the economic adoption of electric cars; in the case of the latter it was lack of much traveling that prompted the use of motor cars. But it must not be conceived that the of cars propelled by gasoline "straight," or in combination with electricity, or of cars driven by the new style steam motors, would not be suitable upon lines having large traffic. Uuon the contrary, it is claimed that they will readily handle a heavy business, their power and speed permitting them to haul one or more trailers when necessary.

Unquestionably, the independent motor car has come into recognition as an important factor in our railroad service.

A WISE MOVE BY GREAT CORPO-

That the leading public-service corporations of the country-telegraph, telephone, gas and electric light, city railroads and steam railroadslearning the wisdom of appealing directly to the public through broad newspaper advertising is one of the most encouraging signs of the times. It was but a few years ago when the policy of "the public be d--" prevailed in far too many cases. Great business organizations did not realize their responsibility to the public. They are now beginning to do so. Not only public-serv ice corporations, but other great organizations dealing with the public, should see the wisdom of this new policy.

The writer once had occasion to say to one of the great leaders in American development that he and many others were making a serious blunder in ignoring the public and in failing to acquaint the public with what they were doing in material upbuilding. In effect it was said at the time: "This suggestion is not made because of any interest in your own particular business, nor is it made because of any personal feeling as to

icy that you and other leaders are following is endangering this country. You are beloing to create a spirit of antagonism which may mean more than injury to you and your associates or the possible destruction of your business; it may mean such a spirit of unrest and dissatisfaction throughout the country to ultimately mean the destruction of our Government as it exists today."

It is from this viewpoint that the MANUFACTURERS' RECORD, believing that it has read something of human history. has sought, when the time seemed opportune, to awaken great corporations to their own responsibilities to the public, and at other times, when the situation demanded it, to urgently press upon the country the danger of being misled by demagogues seeking to ride into power through the development of public clamor and hatred to all great enterprises. A few years ago, at a time when agitation against railroads only made it more impossible to secure money for the building of new roads so much needed by the country, the MANUFAC TUBERS' RECORD unceasingly pointed out the mistake which the public was making in this fight against railroads. Now that this spirit of hostility has so largely passed away, the MANUFACTURERS' RECORD, with equal emphasis, would urge upon the railroads the importance of so expanding their facilities for handling traffic, and so eliminating the just causes for criticism which the public in times past had, as to leave no possible ground for the revival of hostility to the injury of the people and of the roads themselves.

Illustrating the new spirit which is developing among all public corporations in the way of taking the people into their confidence are some facts presented in an advertisement of the New York Central. These facts are so clearly set forth that it is worth giving the New York Central this free advertisement to point out how clearly the case is stated. The management of that road, through the papers, not by way of press agents attempting to unload advertising stuff upon newspapers in the guise of news, but by square, honest, displayed advertising, calls attention to the fact that during last year the road carried 77,900,000 passengers; it handled 188,750,000 tons of freight; it purchased \$75,000,000 worth of supplies, including everything from steel rails and locomotives and advertising space and railroad ties to eggs and butter and bacon. Some of these supplies were bought from individuals, some from companies with many stockholders and a host of employes. These purchases, representing so vast an amount of money, were of benefit to the farmer, to the poultry-raiser, to the buttermaker, to the locomotive builder, to the steel to the lumber operator, practically to every other line of industry. The company paid to 135.211 employes an aggregate of \$95,277,000 in wages. This great sum was likewise expended by the employes for everything that enters into the comfort and convenience of humanity. It went for foodstuffs, for clothing, for houses and for the employment of other people. The securities of the company are owned by 200,000 stock and bond holders, and the income which they derived from their investment, even though they received but little more than the savings bank rate, likewise went for the support of thousands of people and the maintenance of a demand for everything needed in the home or in business.

What is true of the New York Cen-

SOUTHERN FACTS AND SOUTHERN FACTORS

—Nuggets of Knowledge—

THE SOUTH YIELDS ANNUALLY-

\$2,675,000,000 from its factories. \$2,550,000,000 from its farms.

\$400,000,000 from its forests.

\$300,000,000 from its mines.

\$1,000,000,000 of cotton and cottonseed.

\$700,000,000 of grain.

\$180,000,000 of live-stock.

\$175,000,000 of dairy products.

\$170,000,000 of poultry products.

\$150,000,000 of fruits and vegetables.

\$75,000,000 of tobacco.

\$50,000,000 of sugar products.

\$650,000,000 of exports.

20,000,000,000 feet of lumber.

1,250,000,000 pounds of cotton goods.

880,000,000 bushels of cereals.

90,000,000 tons of coal.

30,000,000 barrels of petroleum.

8,500,000 tons of coke.

6,000,000 tons of iron ore.

3,500,000 tons of pig-iron.

2,375,000 tons of phosphate rock.

350,000 tons of sulphur.

THE SOUTH'S RESOURCES INCLUDE-

28,000,000 population.

806,947 square miles of land area.

232,400,000 acres of wooded area.

16,000 miles of navigable inland waterways.

2500 miles of coast line.

70,000 miles of railroad.

\$2,110,000,000 invested in manufacturing.

265 separate kinds of industries.

11,000,000 spindles.

250,000 looms.

845 cotton mills.

830 cottonseed-oil mills.

125 blast furnaces.

15,250 lumber mills.

50 leading minerals.

490,000,000,000 tons of coal.

10,000,000,000 tons of iron ore.

5,000,000 horse-power in streams.

1,000,000 hydro-electric power.

350,000,000 acres of farm land.

35,000,000 head of live-stock.

\$1,400,000,000 of bank deposits.

\$21,000,000,000 of property.

tral road as thus very clearly and comprehensively set forth in these facts and figures is true of every other railroad and of every other great business corporation. No road and no business lives unto itself. It is a part of the great business life of the country. Injure the one and you necessarily injure the whole business community. A man might as well expect to take a hammer and maul his hand into jelly and expect not to suffer as to expect to see the railroads injured either by the mismanagement of their officers or by unwise legislation without the public having to pay the penalty in suffering. The reverse is equally true. If railroads and other great corporations maul the public, they will suffer equally as much pain as that given to the public.

There is a common meeting ground on which all can gather for the benefit of everybody. On this common meeting ground both sides-the corporations and the railroads, on the one hand, and the people, on the other-should come to a better knowledge of each other, to a mutual recognition of each other's needs, and how to serve each other; for in serving each other, each serves himself. Temporary success, however great it may be, won by unwise methods will react in the end. The railroad that ignores the rights, and not only the rights, but the sentiment of the people, may temporarily seem to prosper, and it may do so to some extent from the purely financial point of view, but in the end, in one way or another, it will pay the penalty. It is, therefore, gratifying to see how rapidly the great business leaders of the country, men in position to direct affairs, are coming to a recognition of the wisdom of that other more recent saying than "the public be d---," namely, the one recently stated by President W. G. McAdoo of New York, "the public be pleased." It is not enough to give good service or to sell good goods. It is not enough that the service be low in cost or that the goods be sold at the lowest profitable price. These things should be accompanied by the spirit of humanity in business, of tion. One cannot blame New England they have used the power of the Federal products from such "raw material."

the recognition of the other man's point of view, so that "good-will" will mean really the good-will of the public, and not its enmity.

ON HURRAHING WHEN ONE GOES INTO THE WOODS.

It is the part of discretion not to hur rah before one gets out of the woods. Some folks, in hailing as the premonitions of a political revolution the retirement of one or two statesmen from public action and the sprouting here and there of blades of a species of political grass where none of the kind has flourished for quite a while, are really hurrahing before they go into the woods. Some exponents of public opinion, especially in the South, that already have in imagination "tariff reform" lassoed and stabled, forget the moral in that little hymn to the effect that the devil he grew sick and the devil a monk would be, and have not yet been able to understand the significance of tariff reform from their stand point, in spite of the great light thrown upon the question in the debates on the Payne-Aldrich bill in 1909. They apparently still cling to the dangerous delusion inherent in the advocacy of free "raw materials." They do not seem capable of perceiving that revision downward in tariff schedules, as contemplated by the originators of the Payne-Aldrich bill, really means revision downward of the chances for the sections of the country having the "raw materials" for industry to develop to the extent that other sections have developed under a protective tariff system.

Only the other day the statement was made in a most matter-of-fact way that the reduction of the duty on iron ore from 40 cents to 15 cents a ton had made it possible to lay down Cuban ore at Boston at a price which would justify the building of a furnace there. Boston is the metropolis of a section where the cry for free "raw materials" has been most strenuous in recent years, but the section which has in the past waxed fat under the policy of protec-

for having the wit and the energy to take every advantage of national legislation and the nerve to induce national legislation favorable to its material welfare as long as national legislation is effected upon the principle of using Federal power for the benefit of particular sections or special interests or classes instead of for the greatest good of the greatest number. One must blame other sections that permit New England to use them in pulling its chestnuts from the fire.

Steel-ribbed. hide-bound protection and a home market were all very well for New England as long as New England enjoyed eminence as a manufacturer of goods to be sold in other parts of the country. In such circumstances it could afford to buy its "raw materials" from other sections. Presently, however, with the development of manufacturing industries elsewhere and the expanding of the market for "raw materials" and for the finished products closer to home. New England was confronted with difficulties unforseen at the time when it led in the dawn of the machinery age in this country. Naturally sending consistency to the winds when it was a case of not making as much cash as usual or of possibly losing cash, New England drove straight at the heart of the protective tariff policy in demanding the admission, duty free, of "raw materials" for manufacturing.

But there is not the slightest reason why other parts of the country should impoverish themselves for the purpose of playing philanthropist to New England, or why a great number of comparatively small industries should be made to suffer in behalf of large aggregations who believe in a protective tariff only just as long as it gives them an advantage.

It is to their advantage, to be sure, to be able to buy from other lands more cheaply or to bring in from other lands "raw materials" produced ... selves more cheaply than they can buy readers. If 'raw materials" them from American producers.

Government or its favor to obtain possession at bedrock prices or otherwise of timber or coal lands in Canada or iron-ore lands in Cuba or sugar lands in the Philippines, and can induce a befuddled Congress to let them bring into this country duty free the "raw materials" thus obtainable, it is their good fortune, and they are more fortunate if they can persuade national lawmakers to believe that they are furthering the cause of "free trade" by voting for free 'raw materials."

But their fortune and their advantage are won at the expense of the people of the United States and at the sacrifice of American producers of "raw materials" who cannot purchase American lands at the price of lands in undeveloped, derelict or debauched countries and cannot secure labor at banana and bread-fruit rates of living.

Before our "tariff revisionists," and especially those of the South, rush into support of the game which has assumed another form in talk at Washington of ending public careers, etc., they had better peel their eyes to the truths that nothing is "raw material" which represents the addition of human labor in any form to a natural product, whether iron ore, coal, lumber, petroleum, hides or fruits, vegetables and cotton; that the country is not benefited by any form of reciprocity which permits the marketing of one American product in foreign lands to the crippling of other home industries or the making profitable of investments of American capital in foreign countries, such as Canada or Mexico, to the creation of effective competition with American investments in the United States; that all such devices as drawbacks and countervailing injected into tariff laws are essentially deceptive and full of possibilities for III to the country generally, and that the just and scientific tariff theory is that a reduction or removal of a duty affecting any "raw material" must be accompanied by a reduction or a removal of duty affecting the finished

CREATION IN THE WEALTH SOUTH.

In last week's issue some facts were given regarding an issue of \$1,250,000 of bonds, which have been taken by a Chicago banking house, the proceeds of which are to be used in the reclamation of a 34,000-acre tract of Louisiana land. The statements put forth in the prospectus of the bonds issued by this bank ing house are a great deal stronger than the Manufacturers' Record has ever claimed as possibilities for the reclaimlands of Louisiana and other Southern States. The president of the company owning the land, in a letter to the bankers, which is adopted by them as a part of the prospectus, says:

This land is the result of centuries of de-This land is the result of centuries of de-caying vegetation, forming a deep muck de-posit, which has also been infiltrated with the silt from the Mississippi River, adding to the muck a rich alluvial deposit. The combination of these two—the decaying muck, as rich as stable manure in nitrogen and the fine alluvial silt cream of the Miss issipi Valley—forms a loose arable soil, the fertility of which is greater than that of any known land. Analysis shows that this soil contains over 1.88 per cent, of nitrogen, of Illinois corn land.

This remarkable statement as to the character of the soil and the comparion with the best of Illinois corn land illustrate something of the value of this wet land of Louisiana. Referring to the rapid development of truck gardening around New Orleans for the local market, as well as for shipment to the North and West, the president of the company in his letter calls attention to the important fact that gardening is continuous 12 months of the year, with the winter garden the most profitable. and that as a result of this condition there is a rapid increase in the number of truck farmers and in the growth of demand for available land. He states that lands within wagon haul of New Orleans sell readily at high prices, and that he knows of no truck garden within 15 miles' wagon road of New Orleans that can be purchased for \$500 per acre, and adds: "Many truckers have land and are now buying additional lands at from \$1000 to \$2500 an acre.' These high prices he attributes to the remarkable fertility of the soil, enabling the trucker to produce at a conservative figure at least \$200 per acre a year, while of staple crops, such as sugar cane, corn, broom corn, etc., he states that there is a net yield of from \$25 to \$100 per acre. In many cases, owing to the succession of garden truck, net yields on that are reported as high as \$500 per acre

These statements are indicative of what can be done in the utilization of the hitherto unutilized lands of the South. Louisiana has several million acres of land available for reclamation probably not surpassed in fertility by any land in the world. Its utilization will add hundreds of millions of dollars to the wealth of the State, bring to that section a prosperity greater than that of the richest of the agricultural regions of the West, and help to make New Orleans one of the world's great cities. That a number of strong bank ing houses in the West, long identified with the development of land interests in that section, are now turning their attention to the South is a matter of national importance. One of them, as recently reported in the Manufactur-ERS' RECORD, lately bought 1,000,000 acres for drainage. In the case of the particular tract of 34,000 acres to which reference has been made, a Toronto land-handling company, which is re-

ported to have had remarkable success in handling real estate, will be identi-fled with the location of settlers and the selling of land. This concern has an organization consisting, so it is said, of over 300 land agents located in the northern and eastern part of the United States and Canada, and for the last four years their land sales to farmers have aggregated 150,000 acres per annum. Thus Western capital and Western and Canadian land operators and men identified with population movements are now centering their attention

Recent investigations have been made by capitalists with a view to some very large operations of a similar character in Florida, where the drainage of the Everglades gives opportunities of adding some millions of acres of the most fertile soil in the State to its cultivable land. In Missouri, in Arkansas, in Mississippi and in Texas similar work way, while individual enter prises in the Carolinas are demonstrating the benefits to be derived. Thus we have entered upon an area of the utilization of these millions of acres of land which for centuries have been increasing in fertility, but which have been a drawback rather than an advantage to the South. For many years the MANU-FACTURERS' RECORD has emphasized the possibilities of this work. It is gratifying to see that its teachings are being accepted not only by the people of the South, but by the people of all other sections, who see in this situation an exceptional opportunity for profit to themselves and benefit to the South.

FOR BUYERS AND SELLERS.

A study of the news contained in the advertisements that come to the Manu-FACTURERS' RECORD every week is in itself of interest and of possible value to every man, whatever his business or

Illustrating something of the charcter and wide scope of the things to buy and the things to sell covered in the Classified Opportunities department are the advertisements received during the past six days. In that department among the new advertisements of the week will be found the wants of hustling men who are looking for business opportunities: one man wants to hear from towns interested in building a tex tile mill: one man wants to sell an orange grove, one an ice factory;, another a fire engine; of properties for sale, there are many tracts of timbered lands; some of coal properties; some of cut-over timber lands available for agriculture; city property, farm and truck lands, and easily drained alluviai prairie lands in Louisiana: lead and zinc properties. One man wants to sell railroad lunch counter and hotel; one has a patent window fastener for sale; one wants to secure a canning factory on a 4000-acre peach orchard; good many towns are looking for spe cial industries, and are prepared to make attractive offers for the establishment of new enterprises. ginia city wants to sell franchises for electric light, railway and water-works; one man wants to sell a water-power. another a laundry; one man wants a position as superintendent of a foundry and machine works; one man as office manager and accountant.

Thus all through the pages the story runs of things wanted and things for sale; of men who want positions and positions looking for men; factories for sale and factories wanted; of timber lands and coal properties for sale and how to make investments in them.

Turning from the Classified Opportunities received during the week to the advertisements under the heading of New Proposals received during the same period, there will be found offers of bonds for sale in Oklahoma; for water-works improvements; for sewerage systems; electric-light plant, and \$3,430,000 refunding bonds advertised by North Carolina. In the same department will be found advertisements for bids for construction, of paving and sewers in West Virginia; of street improvements in North Carolina; of firedepartment equipment in Alabama: of a sewerage system of North Carolina; of water-power and electric-light plant in Oklahoma; of logging railroad in North Carolina: of water-distributing system in Georgia, and other wants for bids on many lines of construction work

These facts are indicative of how the MANUFACTURERS' RECORD is more and nore getting to be the meeting place the trading ground-for the people of the South and the Southwest to meet those of the North and West, for people who have things to sell and those who want to buy things, for those who want contracts and those who are looking for contractors. In all of these advertise ments there is a touch of the human side, a light on business conditions of various sections, and those who fail to read these departments of the MANU-FACTURERS' RECORD carefully every week miss many things which would prove of very great interest and value to them.

GENEROSITY.

In changing its name to Financial America as more accurately describing the ope of its activities and influence the Wall Street Summary made an innovation in journalism that must excite the admiration of every generous-minded newspaper tinged by regret that the invention is not its own. It is a custom with many newspapers in referring to a contemporary to print the name of its contemporary m italics. But Financial America makes no such distinction, but refers to its contemporaries as well as to itself in a bold-faced black type. Such a policy will make new friends for Financial America, and consequently widen the range of its usc-

TEXAS INDUSTRIAL CONGRESS.

At its session last week at San Antonio the Texas Industrial Congress called upon all citizens of Texas to co-operate in making known the opportunities of the State and in the proper development of them; it called for that class of immigration which will put under cultivation the arable lands of the State, for legislation tending to bring factories to the State and to promote the building of railroads and public highways, and for the establishment of a State Bureau of Statistics and a Geological Department adequately equipped and financed to furnish authentic data to would-be in-

THE COTTON MOVEMENT.

In his report for April 22 Col. Henry G. Hester, secretary of the New Orleans Cotton Exchange, shows that the amount of cotton brought into sight during 234 days of the present season was 9,463,980 bales, a decrease under the same period last year of 2.897,787 bales. The exports, less 52,292 bales returned from abroad, were 5,180,143 bales, a decrease of 2,144,-224 bales. The takings were, by Northern spinners, 1,800,413 bales, a decrease of 546,995 bales; by Southern spinners, 1.815,317 bales, a decrease of 51,317 bales. A. Pollock, Vicksburg, Miss.

Appalachian Exposition.

[Special Cor. Manufacturers' Record.] Knoxville, Tenn., April 25.

The Appalachian Exposition is spreadng its wings. It covers a great territory, and attention is being paid to the project on account of the good that it is bound to accomplish for the Southeastern section of the country. The exposition, to be held at Knoxville from September 12 to October 12, 1910, started with modest ideas, but its scope has widened wonderfully.

Exhibits from Virginia, North and South Carolina, Georgia, Alabama, Tennessee, Kentucky and West Virginia will be prominent. The railroads, the Southern Railway, Louisville & Nashville Railroad, Tennessee Central Railroad, Norfolk & Western Railway and other large Southern systems, appreciating the great benefits to be derived from this exposition, will also be large exhibitors. The railroads have been particularly strong in their advocacy of this great undertaking. The fact that Knoxville is the place to hold an ex position was appreciated by Mr. S. II. Hardwick, traffic manager of the Southern Railway, who said in a speech at the Appalachian Exposition press banquet on April 9, 1910:

"In 40 miles of Knoxville there are 400,000 people; in 100 miles there are 900,000 people, and within a radius of 200 miles there are 6,000,000 people. Knoxville is by nature one of the best points in the South where an exposition could be held."

Exhibitors are convinced that the wide awake management, under the direction of President Wm. J. Oliver, is going to produce valuable and lasting results for the I. S. FIELD.

For Galveston

According to the Greater Galveston Publicity Committee, that Texan city has projects under construction and those for which money has been set aside representing \$11,435,000. The projects and their auspices are as follows:

Great Rock Island Railway docks	000 000
(Ranroad)	\$2,000,000
(Railroad)	
City Co.)	2,000,000
Great Galveston Causeway (County	
and Railways)	1.500,000
Galveston-Houston Interurban (in	2,
Galveston county)	1,500,000
Immediate harbor improvements (U.	2,000,000
S. Government)	1 950 000
Creat Booch Hatel ((Mileson))	500,000
Great Beach Hotel (Citizens)	
Good roads (County)	500,000
Cotton concentration warehouse	
(Company)	500,000
Barracks at Fort Crockett (U. S.	
Government)	355,000
Boulevard improvements (County)	250,000
Immigration station (U. S. Govern-	ansjess.
ment)	170,030
Paving, parks and esplanades (City).	150,000
Your Country Clubbanes (Club)	50,000
New Country Clubhouse (Club)	DOTOUR
Annual Cotton Carnival (July 30 to	AT 000
August 15)	25,000
Water-works extensions (City)	25,000
Chapman fishing pier (Company)	20,006
Quarantine station improvements	
(State)	15,000
Life-saving station (U. S. Govern-	
ment)	15,000
MANUAL FILL STATE OF THE STATE	200

To Develop Texas Sugar Lands.

The Alamo Land & Sugar Co. has been ncorporated with a capital stock of \$4,-000,000 to deevlop sugar lands in Hidalgo county, Texas. Its incorporators are L. A. Smartt of Donna, Tex.; Chas. J. Winter of Washington, Iowa; A. S. Commer, Thomas S. Miller and James A. Tabor of Chicago.

The Address by Mr. Alfred P. Thom. eneral counsel of the Southern Railway, before the North Carolina Pine Association at Norfolk, Va., on the duty of the Government to business and to business men has been published in attractive pamphlet form.

The Cottonseed & Fiber Co. of Tie Plant. Miss., has incorporated with a capital stock of \$100,000. Its incorporators include J. C. Longstreet, Jackson, Miss., and W.

THE COTTON SITUATION.

| Written for the Manufacturers' Record. |

and Europe were astonished yesterday to learn that killing frosts had occurred in many sections of our cotton belt since Saturday, 23d inst. The effect of the telegraphic advices was to cause an advance in New York contracts for future delivery in the fall months of about one-half cent per pound, while deliveries prior to September 1 advanced about one-quarter of a cent and "spot cotton" about an eighth of

Similar advances were made in New Orleans and Liverpool. Today's telegrams showed very low temperatures at many points in the South, with frost in a few places, but with warmer weather predicted for most sections

Today the New York market for ' cotton" was unchanged from yesterday, while future deliveries for the new cros declined about .18 of a cent, and for the old crop .10 to .15 of a cent.

Very triffing damage was done to the crop in the Carolinas, Central and North ern Texas, Arkansas, Tennessee and Oklahoma, because the crop in these sections was not sufficiently advanced.

The chief injury was in those sections of Georgia, Alabama, Mississippi and Louisiana in which the plants had actual!; come up from the ground. Considerable replanting will be necessary, but the soil is generally in most excellent condition to receive the seed.

It is probable that an area equal to 10 to 15 per cent. of the acreage may have to be replanted.

Some replanting is done every season. and a small percentage of acreage that has been planted is abandoned.

Telegrams received today indicate that the cotton-oil mills will be able to supply to farmers all the cottonseed that may be needed for replanting.

The Southern farmers are generally intelligent men who always keep on hand sufficient seed from their previous crop for such replanting as might be necessary, but there may be a few exceptions to this rule.

It is to the interest of the cotton-oil mills that a full acreage should be planted in cotton, for the larger the cotton crop the greater the supply of cottonseed (and at a reasonable price) for the requirements of the oil mills. It is evident, therefore, that the oil mills will be glad to sell to the farmers all the cottonseed needed, and at a fairly reasonable price.

No damage has been done to the crop which cannot be fully repaired should the weather conditions hereafter be favorable for growth and maturity.

Owing to the remarkably mild weather in March, the cotton crop had an unusually early start and gave promise of being one of the earliest crops on record.

The recent setback will not necessarily make it a late crop, but may result in giving us a crop of merely normal maturity instead of a very early one.

The disastrous failure last week of Messrs, Knight, Yancey & Co. had some little effect on prices when first announced but as the matter of questioned bills of lading involved only about 30,000 bales of cotton, the matter will not affect pricehereafter. So far as having any influen on prices, the affair is now a closed inci-The failure did not diminish the world's supply of cotton by a single bale.

It is not unlikely that much good may result to the cotton trade from this failure, as it should cause better regulations in re-

The cotton markets of the United States, lading from the interior towns of the South to Northern points and to Europe

The business of the American and European cotton mills is now generally very much depressed in almost every section ex cept in England. The improvement in England, which is only recent, is due to a better demand from the Far East, and may not continue.

The commercial crop of American cos ton for the season ending August 31 will probably be 10,500,000 to 10,660,000 bales It may easily be more, should the receiptof new cotton in August be large,

While I do not apprehend such a scarcity of cotton before the free movement of our new crop as to cause "famine prices," it is now evident that the stocks in the markets and mills of the world on August 31 will be considerably less than at the close of last season.

New York, April 26.

COTTONSEED FOR REPLANTING.

Oil Mills Will Co-operate With the

| Special Dispatch to Manufacturers' Reco New York, April 26.

In the midst of conflicting advices and published reports as to the cotton conditions in the South and the prospects for the crop of this year, it is worthy of not that the cottonseed-oil mills have unqualifieldy announced their intention of co-oper ating with cotton planters to the fullest extent. Statements in the New York papers of today are to the effect that the cottonseed-oil mill men will take advantage of their undoubted strategic position to make excessive charge for the s will be required to replant some 3,000,000 acres of cotton in the South. I have made a rather extensive canvass among the New York representatives of the Southern cot tonseed-oil men, and from the information I have secured I feel justified in stating that there will be no attempt on the part of these people to squeeze the unfortunate planters who will find it necessary to re plant. One statement is to the effect that the oil-mill men are prepared to exact the price of \$150 a ton for cottonseed. I am assured that no such intention exists. Instead of this, the mill men have imn ately ordered their plants to stop crushing. so that such stocks of seed as they may have on hand will be available for replanting.

The conditions existing in the cotton belt have conduced to an early and extensive utilization of the seed on account of the high price, running from \$30 to \$35 a ton. The planters have felt like rushing their seed to the market, and for the same reason-the high price for cottonseed oilthe mills have been running overtime to crush the seed and put the oil on the market. For this reason it is probable that a smaller reservation of seed is in the hands of both planters and mill men than would ordinarily be the case at this time of the year. Nevertheless, it is figured that in the nearly 800 cottonseed mills of the country there are considerable quantities of cottonseed still uncrushed, and that this amount of seed, combined with the reservations which all prudent planters keep for emergencies, will make it possible for the planters whose fields have been damaged to secure sufficient seed for replanting wherever the necessity may be found.

It is conceded that several days will be necessary to determine exactly what is the extent of the damage caused by the unprecedented cold spell of the last few days. spect to the issuing of through bills of Some people, whose wish is manifestly

father to the thought, have declared that reports of damage by frosts are greatly exaggerated. They make the statement that much of the seed is too far beneath the surface to be seriously affected by the frost, and as a matter of fact in only a few districts can there possibly be any serious damage done. Nevertheless, the consensus of opinion, as obtained by brokers, newspapers and experts in New York, is to the effect that a very considerable amount of damage has been done by the recent cold spell. It has been figured that something like a 5 per cent, increase n cotton acreage was put in, but just how much the crop has been damaged or how completely farmers may be able or willing to replant is manifestly at this time wholly problematical. As a guess, from the standpoint of a layman who is making investigations, it would seem that the bulls in the cotton situation have very much the best of the argument at this time, and if the Lancashire and other continental spinners pursue their ancient practice of going short on the market they are likely to seriously embarrassed. Altogether, it looks very much as if we are in for a protracted period of high-priced cotton, in spite of interesting developments in the Imperial Valley of California, prospective developments of cotton-growing in Mexico. and in addition to the long-time efforts at cotton-raising in Africa,

ALBERT PHENIS.

The Birmingham Iron Market.

[Special Cor. Manufacturers' Record. Birmingham, Ala., April 2

Nothing has transpired during the past week to mar the "serenity" of the pig-iron market; therefore, no change of figures as to price. A good round lot of iron was ight by the large pipe interest, and this has added some tone to the situation. The general impression has been that when a low level should be reached the largest producing interest South would likely enter the market at extremely low prices and book a good tonnage. Just the opposite has happened, and instead of entertaining making a concession, one of its furnaces on foundry iron has been blown out. It is also understood that another e will be blown out if necessary. While things are quiet in the way of sales and inquiries, both buyer and seller seem to be content with playing a "waiting game. Outside of above-mentioned round tonnage, the bulk of the business transacted has been small lots, and in many instances at higher figures than what is supp the market. For iron shipped from the Birmingham district proper it is conceded that \$12.50 per ton at the furnace is the base price for delivery second and third quarters. For such iron some of the furnace interests are adhering to \$13 base for the fourth quarter, and still others prefer not to quote for that delivery at all. The writer has heard of certain high phosphorus irons and irons from Tennes points selling as low as \$12 per ton for prompt or nearby shipment, and \$12.50 per ton through the entire year. The Southern charcoal iron market, while no exceedingly active, is firm at \$22 to \$22.50 per ton at the furnace. There is a growing scarcity of this class of iron, and its production has been very much curtailed recently.

The different municipalities and private corporations have about completed the preparing of specifications for spring improvements and repairs to water and gas mains, and were it not for the unsettled condition of the pig-iron market contracts would be closed. Notwithstanding this fact, however, some substantial business is being provements and extensions. It is under- and social life of its people.

stood that Johnson City, Tenn., will let contract probably this week. Following are prices quoted per net ton f. o. b. cars here: Four-inch, \$24: 6, 8 and 10-inch, \$22; 12-inch and over, average of \$21, with \$1 a ton extra for gaspipe; fittings, SGO

Putting it mildly, there is no market for old scrap iron, and while following prices are quoted, they are in every sense of the word nominal. Following are quotations er gross ton f. o. b. cars here :

Old iron axles, \$18.50 to \$19.

Old iron rails, \$14.50 to \$15. Old steel axles, \$16.50 to \$17

No. 1 railroad wrought, \$11.50 to \$12. No. 2 railroad wrought, \$10.50 to \$11.

Dealers' wrought, \$10 to \$10.50.

Old steel rails, \$11 to \$11.50.

No. 1 machinery, \$10 to \$10.50.

No. 1 steel, \$11 to \$11.50,

Old standard car wheels, \$12 to \$12.50. Light castings, stove plate, \$8.50 to \$9.

Contract has been placed for the building of the Automatic Railway Switch Co. at North Birmingham. The construction will be of brick and steel, metal sash, glass sides, iron roof, concrete foundation and brick curtain wall. J. G. Ringer of Birmingham is contractor; E. L. Penrud-docke, engineer. The Chattanooga Iron and Wire Works got contract for steel; the Detroit Steel Products Co., the steel sash; the American Rolling Mills Co., Middletown, O., the iron work. The machinery has not yet been placed. It is the purpose of the concern to manufacture automatic switches for street railways.

No. 2 furnace of the Tennessee Company at Bessemer, which has been in blast on foundry iron, has been blown out. This will leave only two furnaces of this company in blast on foundry iron.

On the first of May the Tennes Iron & Railroad Co. will advance the wages of its employes, which will equal an average increase in the company's payrolls of about 5 per cent.

During the past week an explosion ocarred in shaft No, I of Mulga mines, which are owned by the Birmingham Coal & Iron Co., in which about 38 miners lost their lives, and the company suffered property loss to the extent of practically \$100,-000, and at least 90 days' time will be required to clear the debris and put the mine ommission again,

Birmingham bank clearings for the first quarter of this year show a clear gain of \$6,849,400 over the same quarter of 1909.

On Saturday of last week a committee of Columbus (Miss.) citizens called on Dr. Crow, president of the oil and gas company's operations at Fayette, Ala. Columbus is about 40 miles from Fayette, and the town agrees to guarantee the gas company \$75,000 annually. To install the line would mean an expenditure of something like \$200,000.

Steel Rail Sales.

[Special Dispatch to Manufacturers' Record.] Among the rail orders reported this week

Illinois Steel Co., 3800 tons Bessemer, 130 tons open-hearth.

Carnegie, 500 tons Bessemer. Tennessee, 137 tons open-hearth.

A Comprehensive Review.

A large illustrated and descriptive edition of the Daily Oklahoman, published at Oklahoma City, Okla., presents an elaborate review of the diversified opportunities and advantages offered by that State. It tells the story of the development of a great State within the period of 21 years. referring to its attainment of material booked right along. The middle West and wealth within that time, and comprehea far West lead in these contemplated im- sively treats of the industrial, commercial

SOUTHERN COMMERCIAL BODIES WANT INDUSTRIES

The Manufacturers' Record will be glad to receive from responsible correspondents in every town in the South brief items of news about business conditions and the opportunities for industrial enterprises. This information is desired for publication without cost of any kind to the sender, and regardless of whether the writer of the letter is a subscriber or not. The Manufacturers' Record accepts no paid town It seeks information of this kind from commercial and industrial organizations and from municipal authorities in every town and city of the South.

BUILDING AT SAN ANGELO.

Chamber of Commerce

San Angelo, Tex., April 23. Editor Manufacturers' Record:

The \$90,000 hospital of the Sisters of the Incarnate Ward is now in the early stages of construction. Theodore Englehart is the architect.

The National Biscuit Co. has opened a branch office in San Angelo, and has plans prepared for the erection of a \$15,000 warehouse to be built by local capital under lease. J. E. Walls is the local manger, and announces that a large distributing branch will be centralized here.

The Texas Company, of which Louis Kever is construction foreman, with headquarters at Dallas, has under construction an extensive oil-distributing station on the Santa Fe track.

T. J. Robertson of Port Arthur, repre senting the Gulf Refining Co., is reported to have completed arrangements to establish an oil-distributing branch on the Santa Fe spur.

R. E. Scott is the architect for the \$15,-000 two-story brick fire station which will be erected by the city government. The general offices of the municipal officers will be maintained in this building until a city hall is ordered built by the Council.

The \$120,000 Federal building is in the early stages of erection, and good headway has been made on the foundation.

The Cameron Lumber Co. is erecting sheds and an office building on its site recently purchased, and will establish a \$100,000 lumber yard.

Herkrider & Morrison of Fort Worth have established a branch wholesale produce house in San Angelo, and will erect a building suitable for its needs.

The San Angelo Telephone Co. will lay underground conduits on Chadbourne street just prior to the paving of the street. The water and light company will lay new ma'ns along this street to avoid the tearing up of the street after it is paved.

At an election held April 5 the new improvement law was adopted by a very large majority, and the City Council is engaged in perliminary steps toward the pavement of Chadbourne street.

Along railroad construction lines the Orient is grading between San Angelo and Eldorado on its Del Rio branch, and announces that it will push the work to com pletion. On the main line west the grade between San Angelo and Mertzon is ready for steel. Grading contracts between Mertzon and Fort Stockton are daily expected to be let.

In the surrounding towns considerable activity is manifested in building lines. owing to the advent of new railroads being extended to those points. Eldorado. Schleischer county, will no doubt have two railroads within a year, and is reported to be figuring on a \$40,000 court-At Sterling City, Sterling county, I. L. Shepherd of San Angelo is the architect for two buildings to be erected for the First National Bank and Lord & Durham. The material will be Sterling county stone and the bank building will cost \$14,000 and the other \$7000.

At Mertzon, Garden & Farr of San

Angelo are figuring on erecting a waterworks and standpipe.

F. H. GOHLKE,

Secretary.

READY TO MEET SETTLERS.

Commercial Union, Gulfport, Miss., April 22.

Editor Manufacturers' Record:

Gulfport is in the field for any kind of enterprises that may be looking for a good first-class location, and will meet all such propositions with money, land or any other inducements that may be a legitimate demand on our citizens. We are willing to do our part, and more than meet any prospective settler halfway.

The property assessment roll for 1900 showed only \$4,679,051, while in 1909 the property was assessed at \$18,969,170. Everything has grown in the same pro-This wonderful advance is portions. principally due to the fact that Gulfport is a large long-leaf yellow pine export point, having tributary to it the lumber produced and milled in the Pascagoula River district on the east and the Pearl River district on the west. We have 23 feet of water now, and the Federal Government is dredging to 26 feet.

This city was built in what seems to be merely a day, by capital from Chicago and New York, and is just now coming to the attention of the world.

We have made many get rich, and the pportunities of the past are multipled for the future.

The soil around is a sandy loam, with a clay subsoil, and will produce every kind of fruit and vegetable that will grow in any of the Southern States. The climate is delightful either in summer or winter, and the healthiest in the world at all times

A street-car line operating 25 miles of road is one of our recent acquisitions, in addition to numerous factories of all kinds

S. H. WALTHALL. Acting Secretary.

BEAUFORT FACTS.

Chamber of Com

Beaufort, N. C., April 23.

Editor Manufacturers' Record: The inland waterway from Beaufors Inlet to Pamlico Sound is almost com-This waterway passes through pleated. ne of the most fertile sections of North Carolina. No richer soil is found any where, as this section was evidently at on time a lake or an arm of the ocean, and has been gradually filled up with sediment and vegetable matter. Being very hard to drain, this section has not been developed, but since the opening of the canal it will be an easy matter to drain, and it can now be made a garden spot for farming. In addition to opening up this magnificent farming country, the completion of this part of the waterway will mean much for Beaufort, N. C., which is a town of about 2500 population, situated on Beaufort har-A bill to provide deep water from this waterway to the docks of Beaufort is now before Congress. The town will build ommodious free docks as soon as deep water is provided.

Several lumber companies are now propecting near here for growing timber which is abundant.

The town is growing fast in favor as an

class hotels to make it a great place of deasure in both summer and winter, Quite a number of Northern capitalists have already bought sites for winter hor and huuting ranges near Beaufort.

The town has electric lights, graded schools, good churches, artesian water, good shelled streets, is well drained, has salt water almost all around the town, and is one of the prettiest and most healthful spots on the Atlantic coast. This section is so tempered by the Gulf Stream, which flows near the shore, that there are no extremes in climate.

Only 10 miles from Beaufort is Cape Lookout, with a harbor which is second to none on the Atlantic seaboard. It is believed that it will be only a short time before the railroad will be extended to this harbor and a coaling station built to supply the ocean traffic from Southern ports to the Eastern countries, thus allowing them to get supplies without passing the dangerous Hatteras shoals going further north for such supplies.

There is a splendid opportunity at Beaufort for the following investments: Good hotel, lumber plants, shingle and lath mills, guano factories, shirt factory, box factory, shipyard, good departmen!

We are expecting great development here within the next year

U. E. SWANN.

Secretary.

BROWNWOOD NOTES.

Commercial Club,

Brownwood, Tex., March 31. r Manufacturers' Record:

A. H. Bell will erect a \$5000 brick resi-

dence. Contract will be let immediately. The Brownwood National Bank building, which has five stories for offices, will be completed and ready for occupancy April 15. This building is fireproof throughout, the outside being made from Brownwood brick and inner walls of reinforced concrete; building cost when complete about \$110,000.

The Citizens' National Bank will to orrow move into its new building just completed at a cost of \$40,000. It is furnished in marble and mahogany.

At Trickham, an inland town 15 miles southwest of Brownwood, oil has been discovered at a depth of 930 feet flowing out at the top of the well between two casings. This field is near Brownwood, and on the line of the Brownwood & Southwestern road, which is being located and will be built at once. The well flows several barrels daily, and will be a large producer D. F. JOHNSON, under pump.

Secretary.

FOR IMMIGRANTS.

Chamber of Con

Natchez, Miss., April 22.

Editor Manufacturers' Record:

Governor Noel has called a State-wide immigration convention to meet in Jackon, Miss., June 21-22. At this meeting, which has been called at the solicitation of the Natchez Chamber of Commerce, the question will be gone into thoroughly in regard to raising a large sum of money to advertise Mississippi and its many advan-L. E. DAVIS,

TEMPLE IMPROVEMENTS.

Temple, Tex., April 9.

Editor Manufacturers' Record: Temple streets are now being paved with

the best of paving brick. The G. C. & S. F. Railway Co. is building a beautiful senger depot at a cost of \$95,000, and

there will soon be under construction a new Harvey House to cost \$14,000, also an extra large Santa Fe freight depot, and it is persistently rumored that the Santa Fe will build at this point the largest roundhouse on any of its lines south of Chicago. The same road is also constructing its "cut-off" of the heaviest steel, connecting this point with Clovis, N. M., which will form a part of its main line from the Pacific to the Gulf. The Temple & Northwestern Railway is now under construction, which, when completed, will connect this point, Gatesville, Hamilton and Comanche and immediate points.

E. F. LANHAM.

BUILDING AT MACON.

Chamber of Commerce. Macon, Ga., April 13.

Editor Manufacturers' Record:

The building of the new Central of Georgia Railroad shops represents a cashoutlay of over \$1,000,000; two new hotels, each \$500,000: Georgia Life Insurance, 10-story building, \$250,000; Y. M. C. A. building, \$75,000; Lanier Hotel improvements, \$100,000 additional three stories to Commercial National Bank building, \$40,000, esides \$750,000 to be invested in dwellinghouses. The city will also make municipal improvements to cost over \$250,000.

The Chamber of Commerce is working hard to improve the "Central City." Its first move will be for the lighting of all the principal streets by the means of arches adorned with tungsten lights, with reflectors placed every 100 feet.

E. H. HYMAN. Secretary-Treasurer.

TO CALL INDUSTRIES.

Bartlesville, Okla., April 12.

Editor Manufacturers' Record:

Bartlesville has organized the "25,000 in 1912 Club" to promite the industrial, financial and commercial development of Bartlesville. Our city is situated in the very heart of the richest oil and gas region of Oklahoma. To prospective industries this city can offer the cheapest and best fuel in the world, excellent railroad facilities, with more in course of construction, ideal location and a ready market outlet second to none in the United States.

GEORGE T. WAKEFIELD.

PALMETTO'S PROGRESS.

Board of Trade,

Palmetto, Fla., April 9.

Editor Manufacturers' Record:

I note with pleasure the marked progress of all sections of the South. Palmetto, too, is forging to the front as an initial shipping point, and takes rank amongst the foremost fruit and vegetable producing points in Florida. Four years ago she shipped less than 400 cars under refrigeration. This year she will pass the 1200-J. W. JACKSON, car mark.

President.

T

WANTS FACTORIES.

Mt. Gilead, N. C.

Editor Manufacturers' Record:

We need more manufacturing in our We are well situated on the Aberdeen & Asheboro Railroad, with direct connection with the Seaboard Air Line and Southern roads. Town well surrounded with good farming section; 5000 to 6000 bales cotton sold here annually and 150 tons seed. The town offers free site for any enterprise. O. C. BRUTON.

Detailed information about towns seeking manufacturing enterprises and offering specific advantages for development and business opportuni-ties can be found under the head of "Classified Opportunities" on pages 82, 83, 84, and under "Cities, Towns and Bailroads Inviting Entories" on and Railroads Inviting Factories' pages 119, 120 and 121.

HOUSTON AND SOUTH TEXAS DEVELOPMENT.

Houston, Tex., April 23. The story of Houston and South Texas is fascinating. Beginning mid scenes of frontier struggles of civilization for supremacy over barbarism, its first chapters were chiefly records of tragedy. Those records reveal some of the most heroic deeds of the struggles of the Caucasian race in its efforts to establish a civilization upon the Western Hemisphere. In that story is much of romance, both comedy and tragedy, all blended in a great history making epoch, telling of deeds of which only a chivalrous, heroic race is capable.

The struggles and sacrifices of those pioneer heroes and heroines of 75 years ago resulted in laying the foundation for a far greater civilization than they ever dreamed of. The purpose of this letter is to describe the structure which has been erected upon that foundation.

The story of the development of this city and its tributary territory would be incomplete without at least a brief statement of the early struggles of those pioneers. The first capital city of Texas was the town of Washington, situated som-50 miles northwest of Houston. On the first day of March, 1836, a convention assembled in that little town, and on the following day passed the articles declaring Texas a "free and independent nation." During the sitting of that convention oc curred one of the tragedies which, taken all together, terminated ultimately in the independence of the Lone Star State. refer to the massacre of the band of patriots in the Alamo at San Antonio by the Mexican army under General Santa Anna, and which was followed on the 21st of the following month by the destruction of Santa Anna's army at the battle of San

of General Sam Houston's army, the officers and offices of this then young republic were moved down to Galveston to escape the advancing enemy. Later on it was moved to Velasco, thence to Columbia, and in 1837 to Houston, where it remained until 1839, when it was taken to Austin. But in 1842 it was carried back to Washington, thence again to Houston, from whence it was taken back to Washington, and there remained until Texas was ad-

864, was in this portion of the State at that time. We find today that the city of Houston alone has at least one-third more people than all of South Texas had 60 years ago.

The increase in population of South Texas did not keep pace with other portions of the State during the following 25 or 30 years, and indeed not until during the 90s, though during the last 15 years at least the increase has been most rapid. The last five years has shown remarkable growth, and it is altogether probable during that period the Gulf coast section has increased in population as rapidly as any

wise to do, and by this means have increased the population of this portion of the State very rapidly. Those newcomers have opened up large tracts of land and shown the possibilities of the section from an agricultural and horticultural stand point. Many of them are growing well to do, while some are really making fortunes, thus adding to the taxable values of this section and of the State. In a measure this work of the land men has een instrumental in bringing to the attention of the world the possibilities of the coast country, and will ultimately prove of incalculable value to Texas.

Other interests have contributed to the general development of South Texas. Among these are the oil, the lumber, rice and sugar interests, each of which have been important factors and have been magnets helping to draw both men and money to join in the great work of upbuilding this section. This infusion of new blood and added wealth has affected the material interests of every village and town along the oast, and each in turn is an important factor in building up a great commercial center at Houston.

All this coast country is more or less flat, and drains water slowly, and before it can be brought into a perfect state of cultivation a drainage system must be provided. In order to encourage this, a law has been enacted by the State Legislature to permit counties or subdivisions of counties to issue bonds for drainage purpos and many counties or parts of counties are doing this now. No better lands can be found than those along the coast when properly drained, and when people become better acquainted with its nature and fertility its value will be better appreciated.

Fruit-growing and market-gardening are, perhaps, the most important pursuits here, and thousands of carloads of those

THREE HOUSTON PUBLIC BUILDINGS.



HARRIS COUNTY COURTHOUSE.



CITY HALL AND MARKET.



HIGH SCHOOL

Jacinto and the subsequent recognition of . Texas' independence by the Mexican Gov-

On the 17th of March, and, of course, before the decisive battle of San Jacinto, that convention adopted a constitution, modeled after that of the United States, and elected David G. Burnett the first President.

But the town of Washington remained the capital for only 19 days. From there it was moved to Harrisburg, situated five miles from the present courthouse in Houston. When Santa Anna's army left San Antonio, after the massacre of Crockmitted as a State in this Union, December 29, 1845. Thus the little town of Washington was the scene of both the birth and the death of the republic of Texas, which has had more capitals than any other State in the Union.

From the foregoing it will be seen that Texas has been a State only a little over 64 years. It will be necessary to bear this in mind in order to fully realize and appreciate the rapid progress made in this section in so short a time.

The first United States census ev taken in Texas was in 1850, which credits this State with a population of 212,592. ett. Bowie and their comrades, in pursuit It is very probable that one-third, or 70,-

portion of the State. This has been due largely to the efforts of the numerous companies who have bought up large bodies of lands, subdivided them into small tracts suitable for homeseekers of small means, and sold them on easy terms, thus enabling poor men to acquire homes and pay for them out of the profits of their labors. this connection it may be fair to say that while those land companies may in some cases have done things which justified criticism, yet on the whole I am convinced they have been a useful factor in the upbuilding of this section. They have enabled thousands of people to secure home which they would not have been able other-

products are shipped to Northern markets annually. Citrus fruit, especially the Satsuma orange and figs, appear to be the favorite fruits grown here, and both have been found to be profitable crops, and many thousand acres have been or are now being planted in those two crops. Some remarkable results have been obtained from those crops, though on a small scale only. The fig has been grown here for home use for 50 years, and therefore is known to be adapted both to the soil and climate, but not until recently has any attempt been made to grow figs for market, The Satsuma orange, brought here from Japan some years ago, is proving the most

MODERN ARCHITECTURAL EFFECTS IN HOUSTON.

profitable variety grown here. Stout of Friendswood, situated a few miles south of Houston, who has 131/2 acres in Magnolia figs and six and one-half acres in Satsuma oranges, each six and seven years old, gave out a statement recently of the receipts from both figs and oranges for four years, which will doubtless be of interest to readers of the Manufacture ERS' RECORD. Mr. Stout says his receipts from his fig orchard were \$5042.17, from the orange orchard \$11,821.52, or a total of \$16,863.69 from the 20 acres for the four years. This gives an average of \$93.37 per acre per year for the fig orchard and \$454.67 for the orange crop. With such yield no farmer needs a large acreage to make him independent in a few years. When we consider the fact that there is approximately 35,000 square miles of this Gulf coast, of which fully one-third is adapted to those two fruits, we may get some idea of the possibilities of this in-Until the introduction of the Satsun orange, which is more hardy than the naval orange, it had never been thought that citrus fruit could withstand this climate. But the winter just past has been the most severe in the last 20 years, and these trees come through in good condi

tion and now promise a heavy crop The question has been asked, Will it not be possible to overstock the market if a large acreage should be planted in orange and fig trees? Of course it may be pos sible, but hardly probable. With 18 or 20 railroads centering in Houston, providing direct connection with every city in the United States, with deep-water transportation to the Old World, and with a rap idly-increasing population, it would appear that overproduction is practically impossible. With the inauguration of systematic drainage along the coast there hardly any limit to the possibilities for the husbandman here. For besides the fruit and vegetable crops, corn, cotton, alfalfa and other field crops would grow to per

Rice has become another important crop of the coast country. I am told there was 280,000 acres of rice grown in the Houston trade territory last year, yielding an average of 10 bags per acre, or 2,800,-



OFFICE BUILDING.

000 bags per year. Of this crop it is claimed that 70 per cent, was handled through Houston, the value of which is estimated at \$4,500,000.

A new departure in the sugar industry agricultural part of this country, but in has been inaugurated here. Some of the

large sugar plantations are being subdivided and sold to small farmers in tracts from 100 acres and up, and on easy payments. The sugar mills and refineries are being maintained by the former sugar plantation owners, who buy the cane from the small farmers and grind and convert the juice into sugar. This innovation may prove of great value in a general way to this section, because it will increase both the population and taxable values, as well as the annual earnings in a given locality. It is thought by some well-informed men that this new system may go far toward controlling the sugar trust and its abuses. Whether that be true or not, it promises to be a blessing to a limited number of people and to this portion of country.

It has been said by some of the heads of great railroad systems that Houston is a logical gateway to the outside world for all that vast empire lying between the Mississippi River and the Rocky Mountains.

But the question may be asked, why should the products of that vast area be considered tributary to this city as the natural outlet to the rest of the world? The answer is, for several reasons, but an important, if not the chief reason, is the fact that from the Canadian border to the Gulf is a down-hill haul. As an evidence of the importance which railroad managers attach to this feature it need only be stated that all trunk lines which traverse the tevritory lying between the boundaries mentioned have already acquired or are seeking connections with Houston.

But it has been urged that Houston is and always must remain an inland town. In a certain sense that is true, and in another sense that is one of the chief advantages of the city as a port of entry. The ship channel connecting Houston with the Gulf of Mexico is about 50 miles long, and therefore any ship anchored at the wharf at Houston will be entirely protected from Gulf storms while discharging or receiving her cargoes. This of itself is a most important feature, and one which shipmasters will fully appreciate.

This channel is now navigable for ships drawing 18 feet of water, and the United States Government, through an act of Congress, is pledged to create and maintain a depth of 25 feet. Its completion means the creation of the most important inland waterway in the United States. It will not only serve the most important agricultural part of this country, but in addition to that it will be on tidewater for



COTTON EXCHANGE.



APARTMENT-HOUSE.

its entire length, thus doing away with TYPES OF HOUSTON INDUSTRIES. the necessity of locks and dams, thereby

eliminating a source of danger to craft. In this connection I desire to call attention to another important feature of the transportation question, as it has a bearing upon the ultimate importance of Housamercial center. I refer to the Interstate Waterways Canal, which is now being constructed along the Gulf coast from New Orleans to the Rio Grande River near Brownsville. Through the courtesy of C. S. E. Holland of Victoria, Tex., president of the Interstate Inland Waterways League, I have obtained much valuable data relating to this intercoastal canal. Like the Houston ship channel, this canal will be on tidewater level for its entire length; indeed, a portion of its length will pass through some of the bays along the Gulf coast, but the major por tion of it will be some distance inland. It will cross most of the rivers entering the Gulf between the Mississippi and Rio Grande rivers, and therefore all vessels plying this canal may also do business on those rivers as far up as they happen to

be navigable. Thus vessels plying either

the Mississippi River or any of its tribu-

taries may carry cargoes from Houston to

any point on the former, or vice versa.

This will be one of the most important

canals in this country, as it will provide

means of commercial intercourse between

people of a greater area than any other

two canals in the United States.

naking navigation more expeditious and

The mere fact of placing towns and cities in closer touch with each other is not the only advantage to be derived. But what will be of inestimable value to all such points will be the saving in freights. This saving, compared with its cost, will be incomparable in the course of a few years. It will enable wholesalers and manufacturers of Houston to deliver their wares to any town on the intercoastal canal, or on the Mississippi River or tributaires at a minimum cost, and thus widen their field. This feature alone means much for Houston, and should go far toward making it an important manufacturing center. Indeed, there are few, if any, other cities in this country having greater advantages for the making of a commercial and industrial city. Every condition here favors this location for the purpo and the men of means and business ability who will come here and take up the work will find a field that promises a rich har-

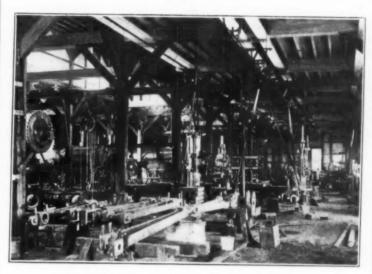
There is already \$16,500,000 invested in the various manufacturing enterprises here, with over 10,000 employes and an annual payroll of more than \$6,000,000. The annual products of these plants is estimated at \$50,000,000. With proper and well-directed effort this could be quadrupled within a few years.

vest.

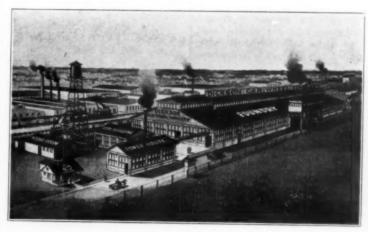
One point worthy of attention by those who are looking for locations for industrial plants is the fact that operations may be conducted more economically here than is possible in Northern latitudes. A moment's reflection will make this apparent. In the first place, factory buildings do not need to be constructed with a view to protecting workmen against freezing weather. Again, there is no expense for heating apparatus in order to make the buildings comfortable for the workers. Besides, there is no loss time on account of intense cold, hence work may be carried on every working day in the year. If this theory be correct, and that is the consensus of opinion of Southern manufacturers, then it follows that the earning capacity of workers is greater here than in more Northern latitudes. Then why not locate in the South?



A PACKING / PLANT.



INTERIOR OF LOCOMOTIVE AND CAR WORKS.



CAR-WHEEL WORKS

Houston along industrial and commercial lieve that it is conceded that cofton manulines. During the year 1908-1909 Houston handled 2,604,034 bales of cotton, valued at \$121,000,000. It is claimed if all that cotton were made into shirting of average weight it would be enough to make a shirt for every human being in the civilized world. That cotton represented 65 per cent. of all the cotton crop grown in Texas that year, and approximately 20 per cent. of the crop grown in the entire South for the same year. If all the cotton passing through Houston were manufactured here it would make Houston the wealthiest

facturers count on getting at least \$200 for the product of one bale of raw material. If so, and counting only \$50 as the average price per bale to the grower, that would leave \$150 per bale, which go the laborer, railroads and manufacturers' That would mean the enormous sum of \$390,000,000 per annum to go into circulation in this city, or about \$3900 for every man, woman and child now in Houston. Is there another city in America with a like per capita income? Is there any good reason why this may not be done? Let us see now what is being done in city in America within a few years. I be- Is not Houston better situated for a great requirements of its trade it is considering

cotton-manufacturing city that any other American city, better even than Manchester, England? The latter city, with a population of less than 400,000, is credited with an annual business of nearly \$2,000,000,000, due chiefly to her textile industries. Houston is nearer by 1000 to 3000 miles to the Orient than any great textile manufacturing center. In addition the is right in the cotton fields; what, therefore, is to hinder? That, however, is for the future. Let us see what Houston is doing today in other industrial lines.

There are five compresses here, with a combined daily capacity of 8000 bales, or about 1,250,000 bales per season, having an aggregate storage capacity of 500,000 bales.

There are also six cotton-oil mills, with an aggregate capital of \$1,100,000. The combined daily crushing capacity is about 1000 tons of seed. They give employment to 700 men, the monthly payroll of which is about \$25,000. Three of these plants operate oil refineries, and, besides their own products, handle much oil from other oil mills. Two of these plants also operate compound lard refineries. Connected with one of them is the largest fertilizer plant in Texas, while two of them are said to be the largest oil mills in America. The aggregate annual production of oil at these mills is 60,000 barrels, while they handle from 100,000 to 125,000 barrels of oil from other mills. All of them do more or less export business, their products going chiefly to Europe.

There are four or more packing-houses represented here, including the Armours, Swifts, Cudahys and one or two others, ach operating large storage houses and shipping meats from their Fort Worth packing-houses. The Houston Packing Co., with a capital of \$500,000, has the only packing-house in Houston, where it does a business of \$3,500,000 annually, \$250,000 being export. Each of the other companies do more or less export business.

The grain business of Houston is som thing immense,

The Dickson Car Wheel Co. is another important enterprise of Houston, with a combined capital and surplus of \$325,000, an annual payroll of \$75,000 and annual business of \$750,000. It gives employment to 125 operatives, and turns out 125,000 car wheels per annum. The products of this company are known to every railroad manager in the Southwest, and are the best that skilled labor and capital can

The Peden Iron & Steel Co, is another of Houston's big concerns. With a working capital of \$610,000 it employs 75 hands and does an annual business of approximately \$1,500,000, of which \$50,000 is exports.

The Grant Locomotive and Car Works, incorporated under the laws of Texas, with a capital of \$50,000, makes and rebuilds locomotives and cars, and does an annual business of approximately \$125,000. employs from 60 to 75 hands, and its aunual payroll is \$50,000 to \$60,000. It also builds locomotives and cars and makes railroad crossings and switches, and buys, sells, leases and exchanges locomotives. Col. W. A. Grant, president of this company, was for eight years master mechanic of the Missouri Pacific system at Sedalia, Mo., and nine years in the same position with the Houston East & West Texas Railroad at Houston.

The National Iron & Steel Co., with J. M. West, one of the millionaire lumbermen of Houston, as president, and I. H. Cohn vice-president and general manager, is another important enterprise of this city. Though a young company, its business has grown so rapidly that in order to meet the

the erection of a large rolling mill. With practically unlimited capital at its command, this would be doubtless a valuable addition to Houston's manufacturing in-

Counting both large and small corpora tions, there are 347 in Houston, with an aggregate capital of \$78,325,000.

With her splendid shipping facilities and immense territory to serve, Houston's wholesale business for 1909 amounted to approximately \$100,000,000, while the retail trade alone was \$23,000,000 m is claimed the lumber handled by Houston concerns last year was sufficient to build dwelling-houses, costing \$2000 each, to house a population of 100,000 people. Lumber from this market goes into nearly every State in the Union, while much of it goes to foreign countries.

Another reliable index of the growth of city is the number and character of buildings erected per annum. I find the aggregate building permits issued in Houston in 1909 amounted to \$4,000,000. The most important structures included were the splendid Government courthouse and postoffice, representing an outlay of \$500, 000; the Harris county courthouse, to cost another \$500,000. Both of these structures are among the finest in all this country, especially the Harris county courthouse, which is six stories high, and finished in the best style of the builder's art. I should like to give a detailed description of this building, but the space allotted to this letter will not permit.

The Scanlan 11-story office building is one of the very handsome reinforced steel structures which graces Main street. The South Texas National Bank building, with its solid marble front and interior, is one of the handsomest of its kind in the State. Several apartment-houses of four to eight stories high; a 12-story hotel building; the Carter 16-story steel office building, now nearing completion, each go to show the growing needs of a growing city. The Chronicle 11-story office building is another beautiful structure just back of the six-story Rice Hotel, which adds much to the beauty of that quarter of the city. Through the splendid work of Secretary Boldt of the Business Men's League, million-dollar hotel is planned, and the money for its construction is practically raised, the site has been selected and work is expected to begin soon. This is one of the crying needs of Houston, for while there are five or six hotels of from 100 to 300 rooms, there is great need of two or three large hotels of 500 to 1000 rooms. and of strictly modern appointments. I am informed that an Eastern hotel company has already signified its desire to take this new hotel over on a long lease at a rental which guarantees a 6 per cent. dividend over and above taxes, insurance and repairs. If consummated this will put Houston on an equal footing with other modern cities in the matter of hotel facilities, and it is claimed will enable her to contest for the big conventions.

The Houston Belt & Terminal Co. is now engaged in building a belt railroad line around the city which will connect with every railroad entering Houston, thus greatly facilitating transportation both in and out, and add much to the opportunities of merchants and manufacturers. Three million dollars is being spent in the work of this company, which will include a magnificent union passenger depot.

Every railroad entering Houston will have terminal and warehouse facilities on the ship channel, thus giving each free wharf and warehouse accommodations Under the provisions of the United States Government in making appropriations for construction of this ship channel it was specified that free wharfage should be provided perpetually, thus protecting ship- of farmers along its lines.

masters from extertion from excessive charges. Slips are now being dug by the city, and warehouses will be built, railroad tracks laid so as to provide every facility for handling freight economically.

Another very important work which promises to encourage the building of factories at Houston is the provisions for free factory sites on the ship channel. The city owns a large tract of land, which will be used for that purpose, and the Port Houston Company and the Penn City Company each have large acreage on the channel which they have set apart for that purpose. Already the Penn City Company has located an important manufacturing concern there, the American Steel & Bridge Co. of Pittsburg, Pa. That company is already on the ground, has a large factory building up and filled with machinery, and expects to start operations within a short time. There is also a project on foot to erect a 150-ton blast furnace there, ship the iron ore from East Texas, bring the coke by water and make the pig-iron for use in the different Houston iron-working plants. It is said that 250 tons of pig-iron is now being shipped to Texas daily at a freight charge of \$6.19 per ton, which of itself would be a handsome profit to the furnace company.

Both Port Houston and Penn City will have railroad connection with every line entering Houston, thus providing every ossible advantage of transportation to al! territory served by those roads.

Houston has 50 miles of street railroads. and is now building an interurban line to Galveston, which will pass through many suburban towns en route. In addition to this there are now 250 miles of paved and shell roads in the county.

Her water supply is artesian, and a good as the best and better than most. She also has one of the finest fire departments in the South, equipped with every modern appliance for fighting fire.

Her public schools number 24, in which are employed 264 teachers, with over 17, 000 pupils, while her school buildings rep resent an investment of \$926,000, and \$219,400 are expended annually for main

Her churches number 47, representing an investment of \$2,117,000, with \$195,-000 per annum for maintenance

The petroleum products in Houston trade territory is another important asset, represented by 13,750,000 barrels annually, much of which goes to foreign coun tries

To handle this volume of business Hous ton has 12 banks and trust companies with combined capital and surplus of \$7.925,000, deposits of \$30,270,000 and gross clearings for 1909 of \$1,250,000,000. One of these banks, the First National was the second national bank organized in Texas, having been organized in February. 1866, with a capital of \$100,000. Several ears later \$200,000 was added to its capital, and from its earnings \$1,000,000 more has since been added, making its present capital stock \$1,300,000.

WM. C. CLOYD.

The Virginia Oyster Packers and Planters' Association elected last week Messes Frank W. Darling of Hampton, president; William H. Hemingway of Norfolk, vicepresident; J. C. Robinson of Hampton, secretary-treasurer; Louis Feuerstein and Alfred von Nyvenheim of Norfolk, R. L. Marshall of Chincoteague, M. C. Armstrong of Hampton and G. W. Richardson of West Point, executive committee.

The Southern Railway Co. is co-operating with the officials of State agricultural departments in the South in operating agricultural trains for the benefit

OOD ROA

WEEK'S HIGHWAY RECORD.

Progress in Southern Road and Street Improvement.

[Full details of highway undertakings are given in the Construction Department.]

Bonds Voted.

Alice, Tex.-City voted \$5000 of bonds for street improvements.

Batesville, Tex.—Zavalla county voted \$20,000 bond issue for roads and bridges.

Chattanooga, Tenn. - City Council passed ordinance providing issuance of bonds for \$100,000 to pave streets in Highland Park.

Macon, Ga.-Bibb county planning \$500,000 bond issue for roads, bridges, courthouse and school.

Williamson, W. Va.-City voted bonds for street paving.

Bonds to Be Voted.

Chattanooga, Tenn.-City Council considering issuance of \$100,000 of bonds to nave streets

Greenville, Ala.—Butler county considering issuance of bonds for road construc-

Martindale, Tex.-Road District No. 2 of Caldwell county votes May 21 on issuing \$25,000 of bonds for road construction.

Contracts Awarded.

Birmingham, Ala.-City awarded \$85. 000 contract for bitulithic paving.

Enid, Okla.-City awarded contract for

Houma, La.-City awarded contract for laving concrete sidewalks.

Houston, Tex .- Harris county awarded ad contracts as follows: Eighteen miles at \$61.452; 21/2 miles at \$10,725; 8 miles at \$32,960; 4 miles at \$18,720; total, 321/2 miles at \$123.857.

Indianola, Miss.-Indianola Dirt Roads Construction Co. incorporated to contract for constructing 100 miles of road.

Lynchburg, Va.—City awarded contract for paving Campbell avenue hill; distance, 600 feet: roadway to be covered with rubble stone.

Maben, Miss.-City awarded contract for 4800 square feet of paving. Macon, Ga.-City awarded contract for

ood block paving. Oakland, Md.-State Roads Commision awarded \$80,000 contract for con-

structing seven-mile road. Richmond, Va.-City awarded contract

or granolithic curbing and guttering. Vicksburg, Miss.-City awarded \$82.

000 contract for asphalt block paving. Contracts to Be Awarded.

Baltimore, Md.—Chauncey Brooks estate opens bids May 3 for grading, paving and curbing certain streets.

Baltimore, Md.-City opens bids May 4 for grading, curbing and paving with vitrified block on Canton street, and sheet asphalt, asphalt blocks, bitulithic or vitrified paving blocks on Hollins street, Fayette street and Philadelphia road.

Birmingham, Ala,-Jefferson opens bids April 29 for slagging and cherting four miles of road.

Birmingham, Ala.-City contemplates ontracting for asphalt binder macadam, vitrified brick, bitulithic, etc., for improving various streets.

Cumberland, Md. - Allegheny county opens bids May 4 for grading and macadamizing one mile of road.

Hickman, Tenn.-Fulton county will nstruct gravel road.

Houston, Miss.-City opens bids within 60 days for constructing 3280 feet of cement sidewalk five feet wide and 10,500 feet of sidewalk four feet wide.

Knoxville, Tenn.-City opens bids May

Louisville, Ky.-City opens bids in May

for laying about \$12,000 worth of vitrified paving in various alleys.

Martinsville, Va.-State Highway Commissioner opens bids May 5 for constructing macadam road.

Oklahoma City, Okla.—City opens bids May 2 for grading and improving center driveway of Grand Boulevard.

Palatka, Fla.—Putnam county opens bids May 7 for constructing hard-surface road 10 miles long.

Palestine, Tex.—City contemplates paving residence streets.

Princeton, W. Va.-City opens bids June 8 for constructing three miles of standard macadam, tar or asphalt macadam paving; cost \$70,000.

Augustine, Fla.-City will pave South George street with shell, and contemplates brick paving on Cathedral Place extension.

Raleigh-Greensboro.

Under the auspices of the North Carolina Good Roads Association and the State Geological and Economic Survey a ing will be held at Durham April 29 in the interest of a thorough improved highway from Raleigh to Greensboro. the exception of about 15 or 20 miles, the road is in good condition, but there are three or four stretches that must be brought up to first-class.

TWO FINE STEAMERS.

Novel and Commodious Plans New Vessels of the Chesapeake Company

Bids have been received by the Chesapeake Steamship Co. of Baltimore for the onstruction of the two large steamers which, as previously reported in the MANUFACTURERS' RECORD, the company has decided to build at a cost of several hundred thousand dollars.

Further details about the accommodations on these new vessels are particularly interesting, as they include agreeable innovations on steamboat travel in the Chesapeake Bay. Each will have 147 firstclass staterooms, and 12 of them will be connected with bathrooms having hot and cold water (either fresh or salt as may be desired), and 10 of these bathrooms will also have shower baths. Another novelty is the placing of the dining-room and the kitchen on the upper or hurricane deck. The dining-room will be located forward, and will contain seats for 60 persons. Back of the dining-room the kitchen and pantry will be situated, and the rest of the deck will be occupied by staterooms and by a large apartment like a sitting-room in a dwelling, in which the passengers may read or otherwise pass their time as desired. A telegraph-room for operating a wireless telegraph will adjoin this. The deck below, or main saloon deck, will be entirely occupied by staterooms, and the main deck below that will be used, as is customary, for freight, but toward the stern there will a commodious smoking-room. The equipment of the vessels otherwise will also be first-class. Each will be 310 feet long over all and 60 feet wide over all. The engines will be four-cylinder tripleexpansion.

One of the steamers will be named the City of Baltimore and the other the City of Norfolk, as they will run between those ports. It is expected that the contract will soon be awarded.

The Alabama Cottonseed Crushers' Association will hold its annual meeting at Pensacola, Fla., May 11-12.

RAILROADS

[A complete record of all new railroad outliding in the South will be found in the Construction Department.]

TELEPHONE DISPATCHING.

Norfolk & Southern and Als Virginian Railway Installing Up-to-Date Methods.

The Norfolk & Southern Railway is about to install a telephone train dispatching system on its main line from Norfolk, Va., to Washington, N. C. The equipment has already been ordered, and it is expected that the apparatus will be placed in service some time early this sum

The telephone line over which dispatching will be done on this system consists of two heavy copper wires, each weighing 210 pounds to the mile, so that a grade of transmission of speech will be obtained qual to any furnished on the commercial telephone lines throughout the country.

The equipment to be installed is what is known as the Western Electric-Gill system, and consists of Western Electric tele phone apparatus with Gill selectors Twenty station along the 136 miles of line will be equipped, so that the dispatcher can call them individually or collectively.

In addition to the above equipment, which will be used in the regular work of handling train movements, the Norfolk & Southern will install about eight siding telephone sets at various points along the line. Two will be located at the Mackey's Ferry drawbridge in cable booths, whil the remainder will be mounted on the tele phone poles along the right of way. Each of these sets is contained in a heavy iron weatherproof case. They will be placed at important sidings. A train crew can go to one of them and talk to the dispatcher.

Besides the foregoing, one of the most important innovations of all is the use of portable telephone sets on the trains, and which can be connected to the telephone line by means of a jointed fish pole cases of emergency, where it is of the utmost importance that the conductor get into immediate touch with the officials and give them details as to any trouble in order that they may know what assistance is required, the portable set has shown itself to be invaluable.

The Virginian Railway has recently placed an order for a complete train dis patching equipment to extend over its first and second divisions. When this is installed the entire railroad will equipped with telephone apparatus for handling train movements.

On the third division, from Roanoke to Deepwater, the telephone is being installed at present, and it is expected this will be cut into service very shortly. It employs Western Electric telephone apparatus with Gill selectors. The equipment to be installed on the first and second divisions is of the same type, but will make use of the latest type of central energy selector, the latest development in tele phone train dispatching.

These two divisions extend from Norfolk to Roanoke, with the dispatcher at Victoria in the center of the line. It is approximately 250 miles long, and the telephone circuit will be of heavy copper wire. weighing 210 pounds to the mile. will be 31 stations with Gill selectors and 27 stations without selectors. These latter are for the use of train crews, and the selector equipment is unnece

An Oklahoma Enterprise.

The Anadarko & Western Railway Co. has been chartered in Oklahoma to build a line from a point near Alden through altogether in Caddo county. The incorporators are C. H. Ford, president: G. D. Driskill, vice-president; L. M. Spivey, s retary; W. F. McCracken, treasurer; L. J. Ogle, E. H. Luitweiler, A. Youngheim, M. Leonard, H. C. Bradford and B. J. Mitchell, all of Anadarko,

THROUGH CENTRAL TEXAS

Quanah, Seymour, Dublin & rt Railway Will Prov North and South Line. Will Provide

The recent incorporation of the Quanali Seymour, Dublin & Rockport Railway Co. in Texas is to build a line 478 miles long from Quanah, on the Fort Worth & Den ver City Railway, southward to Rockport. Tex., on Aransas Bay. touch Medicine Mound, Thalia, Seym Strawn, Dublin and Austin. It will trav erse the agricultural section of North Central Texas, besides extensive coal fields considerable timber land and the truckraising country in the southern part of the

Porter A. Whaley, one of the incom rators, writes from Quanah that the rail road will pass directly through the center of the State, and will give a short I'ne b tween the northwest, and, in fact, all points north of Texas and west of the Mississippi to a terminal on the Gulf. The coal regions on the route consist of from 50 to 75 miles of undeveloped fuel. It will also reach the great cattle ranches of the Gulf coast, among them the Taft place The harbor at Rockport is one of the larg est and best land-locked harbors on the Gulf. It is being deepened and otherwis improved by the Government. Docks will be located at Rockport.

New York and London capital is inter ested in the proposition, and L. E. Walker of Marshall, Tex., who is president and general manager, promises to begin actual construction at Quanah within two The other incorporators onths. Harry Koch of Quanah, S. Plants of Seynour, T. L. Davie of Austin and S. P. Ditcher of Dublin, Tex. The other officers are M. K. Her, vice-president; G. L. Vining, secretary-treasurer, and R. Y. Walker, chief engineer.

Connections of the new road will be as follows: At Quanah with the Frisco system, the Fort Worth & Denver City and the Quanah, Acme & Pacific; at Medicine Mound with the Kansas City, Mexico & Orient; at Seymour with the Wichita Valley and the Gulf, Texas & Western; at Strawn with the Texas & Pacific: at Dublin with the Texas Central and the Wichita Valley; at Austin with the Missouri, Kansas & Texas, the International & Great Northern and the Hous ton & Texas Central; at Lockport with the International & Great Northern; at Sinton with the St. Louis, Brownsville & Mexico: at Aransas Pass and Rockport with the San Antonio & Aransas Pass.

It will probably be a month before it is decided when bids will be received for construction and equipment.

MAY BE A SEABOARD LINE.

Brinson Railway Going to Athens Ga., Which Would Provide Short Route Atlanta to Savannah.

Application has been made to charter the Brinson Railway Co. for a line from Savannah to Athens, Ga., about 180 miles which, if completed and connected with the Seaboard Air Line at Athens, would provide the latter with a short route of about 253 miles from Atlanta to Savannah, although the application contains nothing to indicate that such a connection is contemplated.

There are already about 72 miles of track on the present Brinson Railway. Anadarko to a point near the boundary which is composed of the Savannah Valof Grady county. The new line will be ley Railroad and the old Brinson Railway,

built by Geo. M. Brinson, the Savannah Valley, recently acquired, constituting an extension to Mill Haven, Ga., 15 miles from Sylvania. It is now contemplated to build something more than 100 miles of line from the latter point to Athens. The road at present connects Savannah with Springfield, which is 25 miles out; Sylvania, 57 miles, and Mill Haven, 72 miles The extension will probably touch Waynes boro, Thomson and Washington, Ga. proposed capital stock is \$1,500,000, of which \$500,000 will be preferred. The incorporators are Geo, M. Brinson, who is president of the company; Y. E. Bargeron, secretary; W. C. Myers, auditor, all of Springfield, Ga.; John E. Foy of Effingham county, Jas. Imbrie of New York city, J. T. Walker, E. T. Comer and W. J. Walker of Screven county, Georgia, and R. M. Hitch and R. L. Denmark of Chatham county, Georgia, the last two being attorneys for the company.

LARGE EXPENDITURES.

Santa Fe Will Devote \$31,000,000 for Equipment and Improvements, and M., K. & T. \$5,000,000.

The Santa Fe system, according to dispatch from Chicago, will spend this year \$31,000,000 for improvements and equipment, \$12,000,000 for work already begun and \$19,000,000 for new work. This will include, it is stated, \$2,000,000 for a new bridge over the Missouri River at Kansas City, \$4,000,000 for 125 miles of double track in New Mexico, \$1,300,000 for buildings for the mechanical department and machinery, \$350,000 for new freight yard and building at Cleburne, Tex., and \$150,000 for new yards and structures at Temple, Tex., besides \$2,000,-000 for revising line and grade between Galveston and Coleman, Tex. In addition to the foregoing, the company will spend \$1,500,000 for new locomotives.

The Missouri, Kansas & Texas Railway, says a report from New York, will sper \$5,000,000 this year for improvements and equipment, most of it, however, for equipent for which purchase it is said \$4,000,-000 will be set aside. The other million will be used for the double-tracking in Oklahoma, previously described, and to enlarge terminal facilities

Cochrane's Lines Progressive.

The Tombigbee Valley Railroad and the Alabama, Tennessee & Northern Railroad are among the new and progressive trans portation enterprises in Alabama, and are ometimes referred to as the Cochrane Lines, after their president, John T. Cochrane of Mobile.

The Tombigbee Valley Railroad is not 62 miles long, and runs north from Calvert to Silas, Ala., having also a water terminal at Nannahubba Bluffs, several miles east of Calvert. The shops of the company are located at Calvert. There are about 18 or 20 sawmill and other lum ber concerns on the line, which reaches into Choctaw county, where there is a good farming country, from which the road receives a good diversified business. President Cochrane says that the earnings have greatly increased, and the physical condi tion of the property is 100 per cent, better than it has been at any other time. People are moving out on the line, and the country is developing rapidly. The company is not now extending this road.

The Alabama, Tennessee & Northern is 50 miles long, and extends southward from Reform, Ala., to Bodca Creek, and son day it will probably be connected with the nbigbee Valley, which is working north ward to meet it. It is expected in about 60 days to extend from Bodca Creek with eight miles more of track, and during the summer it is hoped to further extend the line about 14 miles more to York, Ala.,

where it will connect with the Southern Railway and the Alabama Great Southern. The road will then be 72 miles long from Reform, which is on the Mobile & Ohio, to York

This line traverses some of the richest farming land in Alabama, and the country is thickly populated. Besides this, it will furnish transportation along the creeks and open up territory for the establishment of small sawmill plants where virgin timber may be obtained; this in the region between Panola and York, Ala. The road also runs through a fine lime-rock country suitable for cement manufacturing plants.

Finances have been secured for the proposed extension, and the road is described as doing a profitable busi

The executive offices of the two companies are in Mobile. John T. Cochrane, as above stated, is president, and W. G. Cochrane, vice-president of both, the latter being treasurer of the Tombigbee Valley, while Frank M. Moody is treasurer of the Alabama, Tennessee & Northern. William Toxey is chief engineer of both.

New Equipment, Rails, Etc.

The Noccalula Railway, Light & Power Co., which is being organized at Gadsden, Ala., will want prices on two cars, each to carry 40 passengers and to have four motors with 200 horse-power; besides, two miles of 50-pound rails, trolley wire, insulators, etc. Louis Hart, Gadsden, Ala., may be addressed.

The Chicago, Rock Island & Pacific Railway is reported to have ordered 50 steel underfrome refrigerator cars from the Milwaukee (Wis.) Car Manufacturing Co., 200 steel underframe refrigerator cars, 500 stock cars, 500 furniture cars, 20 smoking cars, 20 three-compartment passenger cars, 6 baggage and mail cars, 7 passenger cars and 4 postal cars from the American Car & Foundry Co., St. Louis: 800 40-ton box cars and 5 dining cars from the Pullman Company, Chicago, and 200 50-ton ballast cars from the Rodger Ballast Car Co., Chicago, The passenger equipment will all be built of steel.

The Missouri, Kansas & Texas Railway is reported to have ordered 75 side-dump cars from the Wm. J. Oliver Company, Knoxville, Tenn.

W. M. White and J. J. White, Jr., who have been granted a franchise for a street railway at McComb, Miss., have purchased a gasoline motor car, and may be in the market for another

The Baltimore & Ohio Railroad Co. is xpected to place some additional orders for freight cars, but no official announcement has yet been made of the number re quired.

The New Orleans Public Belt Railroad has ordered a six-wheel switching le tive from the Baldwin Works, Philadelphia.

The Lackawanna Steel Co., Buffalo, N. Y., is reported to have received an order from the Southern Railway for 1200 tons of steel car underframes for equipment to be built at the railroad company's shops.

The Jacksonville (Fla.) Electric Co., it is reported, will order five pay-as-you-enter ars

The El Paso Electric Railway, El Paso, Tex., according to a report, will buy five pay-as-you-enter cars

The Corpus Christi (Tex.) Street & Inerurban Railway is reported in the market for two cars.

The City Railway of Enid, Okla., is reported to have ordered from Barney & Smith, Dayton, O., three single-truck cars.

The Jacksonville (Fla.) Terminal Co. is in the market for several switching gines, according to a report quoting J. H. Nelson, superintendent.

The Seaboard Air Line, says a dispatch from Portsmouth, Va., has ordered steel from the Pullman Company.

The Bowdon Railway Co. of Bowdon Ga., will purchase rails, frogs, rail plates, otives and cars. J. L. Lovvorn is president

Baltimore to Hanoverand Gettysburg

An electric railway to connect Baltimore, Md., with Hanover, Pa., is proposed by the Baltimore & Pennsylvania Railway Co., which obtained a charter recently from the Maryland Legislature. The line will be about 42 miles long between the two terminals, although the amount of construction necessary may be reduced about 10 miles by making trackage arrangements with the United Railways & Electric Co. of Baltimore to run in over its tracks from Reisterstown to the city limits. It is contemplated to extend later from Hanover to Gettysburg, Pa. Connection will be made at Hanover with the electric line from there to York, and when the road is completed it will be possible to travel by electric railway from Washington, D. C., via Baltimore to York, Hanover and Gettysburg, as well as to Lan caster and other points east of York.

The headquarters are at 1209 Calvert Building, Baltimore, and the officers are J. Pierce Bruns, president; Jacob H. Sherident; Newton S. Watts. treasurer, and Jos. P. Reynolds, secretary Others interested are Jacob A. Frederick Heward Tebbs, Dr. John H. Wilson, W. T. Detrick, Daniel S. Reisenweber, J. S. T. Waters and Wm. H. Alexander.

Contract for building the line has been let to the Maryland Construction & Development Co. Engineers have been at work on the route for some time, and it is expected to begin construction shortly. The line will touch several important towns, including Hampstead and Manches-

Pensacola to Mobile Bay.

The Pensacola & Southwestern Railroad Co., recently chartered in Alabama, will be practically an extension of the Pencola, Alabama & Tennesse Railroad from Millview, Fla., to Lillian, Ala., seven miles. This will, however, be extended later to Point Clear, about 28 miles farther, which will carry the line to the shores of Mobile Bay. Contract for the construction has been let to Henry McLaughlin of Pensacola, who is president of the Pensacola, Alabama & Tennessee Railroad, and all work has been provided for. The president of the Pensacola & Southwestern is Charles Barclay at Lillian, Ala., and the secretary Junius B. Hall of Pensacola

Another report on the proposed con struction says it will include a wooden bridge 4000 feet long on piles across Per dido Bay, with a steel draw span of 30 feet. The line will enter Pensacola by connection at Millview with the Pensacola & Perdido Railroad, using the latter's tracks for nine miles. The last-named line will operate the new road under lease, and will own the equipment. John MacDonald of Pensacola is vice-president, and W. D. Stapleton of Bay Minette, Ala., is treasurer.

A Line in Middle Georgia

A letter to the MANUFACTURERS' REC-ORD says that the stockholders of the Wrightsville, Adrian & Lyons Railroad Co. met at Wrightsville, Ga., and organized by electing T. J. James of Adrian, Ga., president; W. C. Oliver of Lyons, Ga., vice-president, and J. H. Rowland of Wrightsville, Ga., second vice-president; W. F. Staten of Adrian, Ga., secretary, and E. J. Summer, Wrightsville, Ga., treasurer. The headquarters will be at Adrian, and work will be started at Lyons and other information on the complete and at Wrightsville simultaneously and

sleeping cars for its New York service pushed through to Adrian. The road will be about 40 miles long

This road will develop a fine section of Middle Georgia, where there is considerable pine and timber along the route, be sides large quantities of hardwood in the Ohoopee River swamp, which parallels the railroad for 30 miles. It will connect on the north end with the Central of Georgia at Wrightsville, at Adrian with the Wadley Southern and the "Central," at Oak Park with the Georgia & Florida, and at Lyons with the Seaboard Air Line.

New Terminal at Mobile.

The New Orleans, Mobile & Chicago Railroad Co. has announced that it will apply to the Mobile City Council for pernission to lay tracks across certain streets. and this has revealed the intention of the company to establish freight and pas terminals near the heart of the city. These new terminals, it is said, will cost more than \$250,000, and in addition to this it is intended to extensively improve the Frascati terminals at Choctaw Point, where additional piers and warehouses and new tracks will be constructed at a cost of nearly \$200,000. Provision for these expenditures will be made by a bond issue. The officers of the company have not yet announced the location of the new passen

Interurban for Oklahoma.

The Muskogee Transit Co. is a new cor poration chartered in Oklahoma to build an interurban railway; capital \$100,000. The proposed line will be 225 miles long. and will connect Muskogee, Wagoner Corrtea, Coweta, Broken Arrow, Tulsa, Sapulpa, Haskell, Boynton, Okmulge Checotah, Warner, Webber's Falls, Illinois Station, Braggs, Fort Gibson, Henry etta and intervening towns. The directors are E. W. Mangson and Oliver J. Barwick of St. Louis, O. D. Revell of Asheville, N. C.; Tams Bixby, Chas. W. Bliss, M. R. Williams, Thomas P. Smith, M. M. Bragdon, N. F. Hancock, W. N. Sayer and Geo. A. Murphy of Muskogee, Okla.

Pennsylvania Railroad After Lumber

A report from Jacksonville, Fla., say that several officers of the Pennsylvania Railroad, including L. R. Zollinger, engineer of maintenance of way; S. Porchec assistant purchasing agent; W. H. M. Thomas, lumber agent; E. E. Sterling. forester; A. H. Kline and H. E. Wise chief inspectors, are visiting Florida with reference to lumber. They have inspected ome timber lands, and it is rumored will make purchases of standing timber. Already the company buys considerable lum ber from Florida and Georgia.

The Meritas Mills.

The Meritas Mills of Columbus, Ga., has been incorporated with a capital stock of \$300,000 by Alvin Hunsicker of the Standard Cloth Co., New York, and associates. This company has purchased 20acre site for a mill to manufacture the cotton cloth used as a basis for oilcloth. It plans shipping the cloth to the Standard plants in the North for finishing as oilcloth. Mr. Hunsicker, J. T. Broadbent of Brooklyn and associates were recently mentioned as planning a mill at Columbus

For 10,000,000 Bricks Annually.

The MANUFACTURERS' RECORD is ad ised by William C. Smith of 431 North Robinson street, Oklahoma City, that he is interested in the organization of a company to establish a plant with an annual output of 10,000,000 bricks. No arrangements have been completed for the machinery, and Mr. Smith invites estimates, data

TEXTILES

[A complete record of new textile enterprises in the South will be found in the Construction Department.]

New England Mill Men.

At the annual meeting this week in Boston of the National Association of Cotton Manufacturers the program includes, in addition to a welcome from Governor Even S. Draper at Massachusetts, a response by Franklin W. Hobbs of Boston, and the annual address by President Charles T. Plunkett of Adams, Mass., and an address by Dr. Richard C. Maclaurin, president of the Massachusetts Institute of Technology, the following papers: tain Aspects of the Export Trade," by Howard Ayers, New York city; "Progres of the Diesel Engine," by Col. E. D. Meier, New York city: "The Federal Corporation Tax Law," by Walter S. Newhouse, New York city; report of committee on standard specifications, by Albert Farwell Bemis, chairman; "A Substitute for Cotton, and a New Method of Operating Ring Frames," by James Hope, Rouen, France "Aboriginal American Weaving," by Miss Mary Lois Kissell, New York city; "Superheated Steam and Superheaters," by Dr. D. S. Jacobus, New York city; "Buying and Handling of Steam Coals in New England." by John S. Lawrence, Boston : "The Electric Drive as a Manufacturing Proposition," by Meldon H. Merrill, Boston; "Choice of Power for Textile Mills," by Charles T. Main, Boston; "Recent Advances in the Chemistry of Coal Tar Colors," by Hugo Schweitzer, Ph.D., New York city; "Sizing of Vegetable Fibers," by Hermann Seydel, Jersey City, N. J.; Production Increasing Methods, Training Workmen," by Henry L. Gantt, New York city; "Distribution of Artificial Light," by Frank Marshall Scantlebury, Boston, and "Bibliography of the Cotton Manufacture," by C. J. H. Woodbury,

Contemplates Building Mill.

A Philadelphia textile company contemplates building a mill to manufacture an article used in the South and West. It is esirous of locating in some city whose investors will subscribe to \$50,000 worth of stock in the enterprise. Particulars are requested as to shipping facilities, fuel advantages, labor supply and population. Address No. 616, care MANUFACTURERS' RECORD.

For Finishing Knit Goods.

The Chesapeake Knitting Mill of Berkley, Va., has awarded contract to F. H. Henley of Norfolk for the erection of an addition. This will be of brick, cost \$3000 and be equipped for finishing knit goods.

Textile Notes.

The Harden Manufacturing Co. Worth, N. C., has awarded contract for 5000 additional spindles and other machinery.

The Regal Hosiery Mills Co. of Camron, N. C., will erect a building addition and add 15 knitters. These improvements will cost about \$3000.

The Wadesboro (N. C.) Cotton Mills Co. will, it is rumored, erect an addition and install 350 looms at an estimated cost of \$90,000. This company now operates 10,890 spindles, and contemplates weaving its output.

The Lang Manufacturing Co. of West Point, Ga., will, it is reported, double its capital and capacity. This company is now capitalized at \$100,000 and has 3000 ring spindles, 70 looms, dyeing and finishing equipment, etc.

Messrs, O. P. Heath & Co. of Charlotte, Isaac Toomer and O. Sanders Favre,

N. C., are reported as completing arrange nents for the erection of their proposed cotton mill near Erwin, Tenn. They will operate by electricity transmitted from the Nolachucky River water-power-electrical plant (to be constructed) of the Nolachucky Power Co., K. S. Finch, president. Charlotte, N. C.

The John Manufacturing Co., Kings Mountain, N. C., has completed the installation of additional machinery, including a 36x36 low-pressure boiler to make its power plant compound condensing, automatic opener and lapper, 200 spindles, 960 twister spindles, spoolers, 54-spindle uniersal winder, etc. This company manufactures cotton yarns.

LUMBER

[A complete record of new mills and building operations in the South will be found in the Construction Department.]

National Lumber Manufacturers.

An important meeting of the National Lumber Manufacturers' Association, at which 13 affiliated associations were repsented, was held at New Orleans last week, with President Edward Hines of Chicago presiding. A feature of the first day's session was an address on Problem of Practical Forestry," by Henry Solon Graves, chief forester of the United States Department of Forestry, in which he stated that restrictive legislation was not necessary, and that the more study he gave to the subject he became more convinced that immediate legislation was not necessary, but a beginning of practical forestry by lumbermen themselves, Professor Fred Rogers Fairchild of Yale University read a paper on "Timber Land Taxation," advocating a single tax on timber lands and stating his belief that a just solution of the timber taxation question would be for the State to abolish the property tax on timber and assess the value of the annual cut per annum. In his address President Hines advocated co-operation ng lumbermen in all parts United States for mutual protection, and reviewing the history of tariff legislation. said there has been a vast improvement in lumber trade conditions. Other address were made by J. B. White of Kansas City, Mo.; C. A. Stafford, manager National Association of Box Manufacturers, Chicago; E. T. Allen, forester Western Conservation Association, Portland, Ore.; Charles Janiver, vice-president Canal-Louisiana Bank & Trust Co., New Orleans; James D. Lacey, New Orleans; Royal S. Kellog, formerly assistant forester of the United States, and others. The following officers were elected: Edward Hines of Chicago, president; J. A. Freeman of St. Louis, treasurer : E. G. Griggs of Tacoma, Wash., and W. B. Stillwell of Savannah, Ga., first and second vice-presidents, respectively; R. H. Van Sandt of Ashland, Ky., and R. H. Downman of New Orleans, additional vice-presidents.

The position of secretary, held by Geo. K. Smith, and of manager, occupied by Leonard Bronson, both of St. Louis, are to be filled later by the governing board. It was generally agreed that the incumbents would be re-elected.

Lumber Notes.

Owing to a small attendance, the Alabama-West Florida Lumber Manufacturers' Association, which was to have met in Montgomery last week, was postponed un-

The Pearlington Lumber Co. of New Orleans has been incorporated with a capital stock of \$100,000 by Joseph J. Favre,

FOREIGN NEEDS

Machinery and equipment abroad are mentioned in many letters received by the MANUFACTURERS' RECORD. which is so widely read in foreign countries that we are in constant receipt of many letters from all parts of the world. For the benefit of our subscribers seeking foreign trade we publish the following extracts from recent letters:

Leather and Olive Oil.

Bogdanos Freres, Corfou, Greece, write the MANUFACTURERS' RECORD:

"We ask you to give us the name of an important American manufacturer of leathers for footwear who would desire to be represented in Greece. We shall be also very much obliged if you will name an important American merchant importing olive oil. Our country produces a very fine quality of olive oil and exports it in large quantities to all European countrie especially to Italy, France and England. Many of the most important producers be ing our friends, and desiring to sell their product at a good price requested us to find an important American firm that deals in the olive oil commerce on account of selling to him direct their product. It is understood that it would be of mutual advantage to an American olive oil importer instead of buying olive oil from Italy, to buy it direct from the producers through representative. We would expect to represent him and ship for his account. As for our activity and honesty he can refer to the firms and assurances we represent and for more particulars to the National Bank of Greece at Corfu. We would also make, if necessary, a deposit in one of our banks which could cover his remittances and serve him as guaranty in every case till we are better acquainted. We send you by today's mail two samples of our olive oil. The No. 1 is of the very fine quality, and cost f. o. b. Corfu 155 francper 100 kilograms (including casks and our commission, 150 francs per 100 kilo grams). The No. 2 is a type of the com mon olive oil of Corfu, and costs today f. o. b. in Corfu 124 franes (including casks and our commission). Will you be so kind as to submit these samples to the American firm you will recommend to us and let him know our offer?"

Italy Wants American Metals.

Joseph Is. Modiano, Casella Postale 236, Milan, Italy, writes the MANUFAC-TURERS' RECORD:

"You will oblige us if you kindly men tion our name in your advertising pages and possibly in your reading columns, stat ing that we are an old firm, established 1858, with different agencies in different States of Italy, and that we are especially representative agents of hardware manufacturers and metal exporters. We are looking now to communicate with important American firms with a view to introducing their products in our territory. We require but hardware articles and metals as straits, tin, copper, yellow copper, white metals, copper wires, zinc, pig-iron. W are introduced among all the leading mer chants, and can produce good business."

Wanted for Mexican Trade.

Jose Boca, Apartado de Correos 1068, Mexico City, Mexico, writes the MANU-FACTURERS' RECORD:

"Your MANUFACTURERS' RECORD I find before me, and it is one of the best reviews I have ever received from the United States, not only for its marked wealth in advertisements, but also for the useful, interesting and varied text. For five years have been representing Messrs. Pedro Platellorens & Son of Barcelona, one of the most important commission 300 were present.

houses in Spain, for whose account I have been traveling throughout this republic. have decided to devote myself to the sale of goods from the United States, and am now agent for one important firm. I may address myself to some of your advertisers, in which case I shall take pleasure in men tioning you as the medium through which I became acquainted with them. might state in your columns that I shall be most happy to take agencies for conserves of every kind, furniture in general, cotton, coal, coke, hardware, cement, paints, varnishes, cutlery, woods, iron, steel, tin, grooved metal, chemicals, drugs, enameled and galvanized metal, leather, wagons and supplies for them. My references are R. G. Dun & Co.'s Mercantile Agency, Messrs. Pedro Pladellorens & Son of Barcelona, and many other firms whose names I shall give on request.

Bottling and Coffee Machinery.

Ferdinando Bounous, Turin, Italy, vrites the MANUFACTURERS' RECORD:

"I should be very happy to represent foreign firms as their Italian agent, especially for novelties, since it is extremely easy to introduce new and useful good here. In this connection I would say that I am an agent for Italy of many firms of Switzerland and Southern France, and also for the Edesche Machine Works of Ede, Holland, for the sale of equipment for torrefying coffee by use of gas heaters Everything relating to such work is of great interest to me. Could you not send me the address of some firm making simple and practical apparatus for corking (closing) and uncorking (unclosing) bottles."

Cotton Oil. Cloth and Provisions.

Thomas Fenech & Co., 291 Strada Reale, Valletta, Malta, write the MANU-FACTURERS' RECORD:

We are interested in provisions, cottoneed oil and American cloths, for which please put us in direct communication."

Hydrated Lime Plant.

The Tidewater Portland Cement Co. which was organized to build a large Portland cement and hydrated lime plant at Union Bridge, Md., has completed and put into operation its hydrated lime plant. This plant will have a capacity of about 700 barrels of hydrated lime daily, making it one of the largest of its kind in the East. The machinery and equipment installed is of the most improved design, and the large hydrator was furnished and in stalled by the Kritzer Company of Chicago, Ill.

Work is also being pushed on the con struction of the Portland cement plant, which is to have an ultimate daily capacity of 3000 barrels. Foundations for some of the buildings are now being laid, and it is hoped to have the entire plant fully equipped and in operation by next spring The buildings will be of steel and concrete onstruction, and will include crushe building, 76x74 feet; kiln, 224x122 feet stone storage, 17x76 feet; raw mill, 96x60 feet; coal mill, 96x50 feet; coal storage 80x64 feet; clinker mill and gypsun use, 144x60 feet; boiler-house, 128x48 feet: also other smaller buildings, such as machine, carpenter and blacksmith shops, storage-house, etc. The plant will be electrically driven throughout. The contract for the entire construction of the plant and its equipment, with all necessary machin ery, is in the hands of the Fuller Engineer ing Co., Allentown, Pa.

In order to acquaint those interested in the enterprise with its scope and facilities, the company invited them to be present at the opening of the hydrated lime plant on April 23, and altogether about

MINING

Underground Oklahoma.

Mr. L. L. Hutchison, assistant direct of the Oklahoma Geological Survey, has just sent to press a special State report on the asphalt, oil and gas deposits of Oklahoma. This report is divided into two parts. In Part I Mr. Hutchison gives neral map, which shows that portion of the State in which asphalt occurs and the region where it is likely to be found. It also contains a geologic map of the asphalt-bearing district, and one showing the exact location of nearly 100 known de posits, all of which have been visited by the author or his field assistants. This part of the report is closed with a chapter on asphalt paving, which contains invaluable suggestions to cities and towns which contemplate paving.

Part II is devoted to oil and gas. After reviewing the history of the industry and discussing the various theories of origin and accumulation of petroleum and natural gas, Mr. Hutchison discusses the geology of the Oklahoma petroleum and natural-gas fields, and closes the work with a chapter devoted to the latest Okla homa statistics and a review of past and present conditions in the field. This section of the report is illustrated by a general map showing the present developed areas; probable territory yet undeveloped, and those parts of the State where it seems possible that oil and gas may be found and by a geologic map of the oil fields, and detailed maps, on a scale of one inch to the mile, which give the exact location of every well drilled in the various important fields prior to 1910.

This valuable report may be had upo application as soon as it is off the press.

Big Virginia Coal Deal.

A deal involving extensive coal properties in Southwest Virginia has been completed by the Stonega Coke & Coal Co. of Stonega, Va., D. B. Wentz, president, Philadelphia, which has acquired the properties of the Keokee Consolidated Coke Co. With reference to the transaction the Stonega Coke & Coal Co. telegraphs the MANUFACTURERS' RECORD that the property consists of 9500 acres of coal land located in Lee and Wise counties, Virginia: 700 coke ovens, and coal mines having an annual capacity of 750,000 tons The amount of money involved in the deal has not been announced, but it is understood to be several millions of dollars.

Large Coal and Coke Haulage.

According to a report recently issued, the coal and coke tonnage hauled by the Baltimore & Ohio Railroad during March, total of 1,661,470 tons hauled during the sponding month last year, while the coke tonnage amounted to 404,558 tons during March, as compared with a total of 329,470 tons hauled during March, 1909,

The Wiser Mining & Development Co. of Joplin, Mo., has incorporated with a capital stock of \$50,000 to develop lead and zinc deposits. Its incorporators are Frank W. Wiser, A. B. Wiser, W. II. Frickleton and others.

Georgia Cattle Co.

The Georgia Cattle Co, is being organzed with a capital stock of \$100,000 for the purpose of establishing a large stock farm near Athens, Ga. Leon P. Sawtell of Atlanta will be general manager, 1000 acres of improved farm land have been purchased 10 miles southeast of Athens, while 2000 additional acres grazing land have been optioned. The company's principal purpose is to breed and fatten beef, but it will also breed mules, hogs, sheep, goats and poultry. Grain, hay and grasses will be grown for feeding and cottonseed meal to fatten cattle for market.

Jacksonville's Great Growth.

In a publicity campaign for the advance nent of Jacksonville, Fla., The Metropolis, which is published in that city, intends to supply high-class studies designed to accelerate the city's development. Its edition of April 20 presents several tables showing how Jacksonville has rated in business progress with other cities of its size: its large gain in bank clearings for 10 years; its advantageous facilities as a location for factories; its gain in wage earners as compared with other cities, together with other features of its progress.

TENNESSEE NORMAL SCHOOLS.

About \$690,000 for These Structures and Improvements.

The Tennessee Department of Public Instruction, R. L. Jones, superintendent, Nashville, is arranging for the propos Normal School buildings, for which plans were accepted recently. B. C. Alsup of Memphis and Adams & Alsup of Chattanooga will plan the Memphis Normal, to cost \$350,000-main building \$200,000, women's dormitory \$100,000, model school building \$35,000, accompanying improve-ments \$15,000. C. K. Colley of Nashville is architect for Middle Tennessee Normal at Murfreesboro-main structure \$110,000 and dormitory \$60,000. Baumann Bros. of Knoxville are architects for East Tennessee Normal at Johnson City-main building \$110,000 and dormitory \$60,000. Herewith is a view of the Johnson City building as it will appear when completed. 1910, shows a large increase as compared. The date for opening construction pro-with the tonnage hauled during March, possils has not been decided. Specifica-The date for opening construction pro-1969. A total of 2,536,231 tons of coal tions are expected to be completed by was hauled during the month, as against a May 30.



TENNESSEE NORMAL SCHOOL AT JOHNSON CITY.

MECHANICAL

Blake & Knowles Improved Water Heater.

An accompanying illustration reprerepresents the improved type of open feedwater heater which the Blake & Knowles Steam Pump Works of the International Steam Pump Co., 115 Broadway, New York, has recently put on the market. This heater is of new design, and combines the advantage that the "open" method of heating boiler feed water, or water for heating or drying systems, etc., allows over other methods ordinarily in use, and embodies other features of convenience and economy of operation.

The water is heated by direct contact with the exhaust steam, the heating capacity of which is utilized at its maximum degree, and there is no drop in the temperature at which the water leaves the heater, due to any collection of mud or scale. All impurities in the water, such as sand, floating particles, etc., are retained in the Elter, and all scale-forming carbonates, air and forms a "skimmer," so that floating

inlet, is the cold water inlet trough, out of which the water supply, conducted through an automatically controlled valve. is spilled into the trays. At the lower end of the shell the filter is located, the material of the filter bed consisting of coke, excelsior or other similar material. This material is confined between two perforated plates, and can be removed when necessary through doors provided for the purpose. Beneath the filter bed is a chamber, from which the purified water is taken away by the feed pump. All the sediment collects in the lower part of this chamber, and is drained away through a blow-off connection to waste. The receiving chamber occupies the space above the filter bed, and is of extra large capacity, so as to take care of the condensation from the heating systems, etc., which is received in deluges from the traps, pockets, radiators, etc. when they discharge their contents. automatically controlled overflow at the top of the receiving chamber takes care of any dangerous excess of water, and this overflow extends the full width of the shell

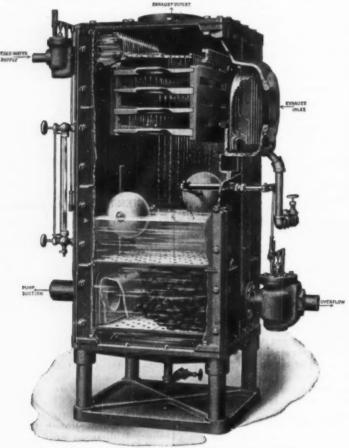
well and drains away to waste. The oilcleansed steam now enters the heater shell and fills the space around the trays, where it comes into intimate contact with the water supply, which is dropping from tray to tray in a finely divided condition. The water supply, entering through a float controlled valve, fills the distributing trough, which extends across the shell and overflows from a serrated edge in a thiu, even sheet onto the trays below. These trays, arranged one below the other, are slightly inclined and partially perforated, so that the water flows from one to the other over the lower serrated edge of each and through the perforations, being retarded in its progress, so that it is thoroughly mixed with the steam before falling into the hot well below. Ample space is allowed around the trays, so that the water in its finely divided state is heated to the highest possible temperature.

The difference in height between the ormal water level in the hot well and the overflow level is sufficiently great to ac commodate the sudden inrush of water from the traps, returns, etc., forming in this way an adequate storing chamber for the water thus received.

Two floats, properly located in the receiving chamber, automatically control the operation of the apparatus; one, connected with the water inlet valve, regulates the cold water supply and maintains a constant water level, at the same time meeting the demands of boiler feed water supply, while the other, connected with the overflow valve, opens this valve when the overflow level has been reached and allows the excess water to escape to waste.

The water and condensed steam, after falling to the receiving chamber, percolat slowly through the filter bed, and in this process, due to the heat of the water and the special design of the heater, the scaleforming carbonates in the water are pre cipitated and retained by the filtering ma terial, while the gases liberated pass on with the uncondensed steam through the vent pipe at the top of the heater. purified and heated water drops into the settling chamber and is pumped away, a ure, hot water, free from mud and scale forming matter, in perfect condition for boiler-feed use. The heavy sediment col lects at the bottom of the chamber and is blow-off connection below the heater body

The operation is entirely automatic, and under ordinary circumstances requires ao attention whatever. An occasional cleaning and proper inspection are all that are required. Every convenience is provided for this purpose, and no pipe joints have to be broken for any of the operations necessary. Pressure ranging from atmos pheric pressure to five pounds above may be carried in the exhaust line without im pairing the efficiency in any way and without requiring any modification in the con truction or operation of the heater.



BLAKE & KNOWLES IMPROVED WATER HEATER.

and other gases, so dangerous to the life impurities can be "skimmed off" by simply of boilers, are removed, making the product | holding open the cold water inlet valve unleaving the heater pure, hot water, perfectly suitable for boiler feeding or other refined industrial purposes.

The heater combines in one apparatus the functions ordinarily performed by several machines. It extracts all the oil from the incoming steam, and, besides heating the water, filters and purifies it. It contains also a storage tank for receiving the water of condensation.

As seen from the sectional view, this apparatus consists of a vertical cast-iron rectangular shell, on one side of which. near the top, is located the exhaust steam inlet. The oil separator is built into the heater body just inside this inlet, and all the steam must pass through this separator before it can enter the heater. Inside the heater shell, at the top end, several shallow removable water trays are arranged, one beneath another, which are slightly inclined and partly perforated. Above these trays, on the opposite side from the steam til the heater fills to this point, when the impurities run off into the overflow and through the valve below to waste. The feed pump suction is located at one side of the feed-water chamber, with a vent pipe leading up into the heater body for carrying away any vapors that may collect. An outlet is located at the top end of the heater shell, which is used as exhaust or vent pipe, as required, depending on whether the apparatus is used as a "thoroughfare" or "draw" heater.

In operation all or part of the exhaust steam, as may be required, enters the exhaust inlet, where, moving at a high velocity, it strikes a peculiarly punctured and bent metal surface. The elastic steam reounds and passes around to either side, while the oil, on account of its greater momentum, is carried through the punctured sheet against the back plate of the grating, where, out of the swirl of the ing whether the fuel is producing steam or steam current, it falls into the receiving ashes and smoke, and in such plants the

The "Kennicott" Water Weigher.

Two accompanying illustrations present iews of the "Kennicott" water The device is manufactured by the Kenni cott Company of Chicago Heights, Ill This company says:

"From 65 to 80 per cent, of the operating osts of steam-power plants are expended in the boiler-room in the production of steam. Because of the great liability of loss of money in this production too strict account cannot be kept of the daily evaporation where even fairly economical oper ation is desired, a fact which is well recog nized by engineers and managers today. In plants where the engineer or manager does not know the evaporation each day he is compelled to work blindly, not know-

economy of operation is from 15 to 30 per ent, lower than it should be

"The 'Kennicott' water weigher gives a continuous daily record of the weight of boiler feed water evaporated, which provides a final check on the efficiency and the economy of the boiler plant. It immediately detects defective furnaces, inferior fuel, overtaxed or scaly boilers, inefficient firing, etc., and furnishes the manager with reliable means for accounting for the nmense sums spent for fuel, which enables the manager to decrease fuel bills



"KENNICOTT" WATER WEIGHER.

and operating expenses from 10 per cent. to 30 per cent.

"This weigher is remarkable for its simplicity and positive automatic operation. It has no valves to leak and cause inaccurate records, no pistons, no revolving parts and no delicate recording mechanism. Its necuracy is unaffected by those wide fluctuations in rate of supply which are often unavoidable in boiler feeding, and which cause the well-known inaccuracy of water neters and various water-measuring devices. It has no parts that can be warped out of shape by the temperature variations which cause variable friction in the works' of other water-measuring devices,



"KENNICOTT" WATER WEIGHER.

with corresponding inaccuracy. It weighs water or any free flowing liquid hot or sold.

"We furnish a weigher which receives water from any source and delivers it in unit charges of uniform weight into any suitable storage tank, hot well or sump tank. When weighing boiler feed water where an open heater is used the weigher receives the hot water from the open heater, weighs it and delivers it to the storage tank or hot well from which the feed pumps take water. Where a closed heater is used the water is weighed and

passes to the feed pumps through the closed chine when it is in operation; cylinder is heater into the boilers.

"The weigher is furnished either with or without a storage tank, as it is often convenient to weigh the water into some storage tank already installed. When a storage tank is used the supply to the weigher may be automatically regulated by balanced pressure valve in the supply line to the weigher, controlled by a ballfloat in the storage tank, which insures that the storage tank is always full of water. In some cases it is sufficient to regulate the make-up water only and allow the main supply of return water to flow continuously to the weigher.

"The 'Kennicott' is built in all sizes from that having a capacity of 750 pounds of water per hour up to 1,000,000 pounds of water per hour. The smaller sizes are portable, and may be moved from place to place, thus providing a convenient and accurate method for making special boiler tests.

"While the device affords a most reliable means for recording the weight of boiler feed water evaporated, its adaptability is not limited to this fleld alone, as it will weigh or measure naphtha, oil, alcohol, chemicals or any free-flowing liquids, hot or cold."

The "Perfection" Concrete Mixer.

An accompanying illustration presents a view of the "Perfection" concrete mixer. This machine is intended to run by hand, but can be operated by a gas engine or other power with very little trouble by the use of belt and pulley.

There are two cranks for turning, onof them being hidden from view in the illustration, which are adjustable and can

omposed of semi-spiral steel blades; water sprinkler is regulated with a globe valve, within convenient reach of the operator, so that concrete may be wet to any onsistency desired.

When in use, sand, stone or gravel of a given quantity is usually placed on a pile in a convenient place or shoveling distance from the hopper. The desired proportion of cement is then spread over the pile of mixed stone and sand or gravel. The whole is then shoveled into the hopper, let ting the cement fall down over the stone The machine thoroughly mixes and wets the mass to the proper consistency.

The actual measuring of the different ingredients before they reach the machine insures the best results, and no haphazard mixing results when this is done

This mixer is manufactured by the Sidey Elevator Manufacturing Co., 522 Shelby street, Sidney, O.

"Ashcroft" Valve Grinder, Etc.

An accompanying illustration represents the "Ashcroft" combined valve grinder, breast drill and ratchet. This is the product of the Ashcroft Manufacturing Co., 83 Liberty street, New York. The company

"The grinder has been designed to mee the demand for a handy, light, compact and durable tool for service on automo biles, to take the place of a number of clumsy, bulky devices which do not do the work in an up-to-date and efficient manner and cause a number of common automobile troubles, such as leaky valves and loose parts.

"Leaky valves on an automobile mean or compression, inability to start the



"PERFECTION" CONCRETE MIXER.

be made with a long or short sweep, to suit motor 'on the spark,' greater fuel consumpthe operator.

While it is so arranged that two men can turn the machine, only the power of one man is ordinarily required, the extra crank handle enabling the operator to stand on either side.

This machine has a wide range of casacity, depending on speed of mixer and the amount of feed, and it is claimed it can be operated by two to eight men with equal efficiency.

It embraces the following points of con struction: Frame is made of well-seasoned hardwood, well braced and bolted together; wheels are large and excellent for traveling on the road; will stand hard knocking and usage: mixer can be hitched to and drawn behind a wagon; water tank made of strong galvanized steel plate, well riveted, and very substantial; mixing trough is constructed of heavy steel plate, and is surmounted on stiff and rigid iron brackets, which, in turn, are strongly fastened to the frame; the shafts of coldrolled steel, which run in anti-friction ad justable boxes; adjustable legs provided

tion, loss of power and efficiency and gen eral dissatisfaction with the car's action Automobile owners, chauffeurs and garage men will find that the 'Ashcroft' combined valve grinder, breast drill and ratchet will pay for itself in a very short space of time minimizing the common automobiltroubles mentioned above.

"This handy combination tool is de signed along the general lines of a breast drill, but, as the name implies, it has a great number of uses.

"Because of its unique action, this too peculiarly adapted for grinding automo bile valves by hand. This action is an oscillating one, with the arc of oscillation gradually advancing to the right, which prevents the cutting of grooves and cause the valve seat to be ground smoothly and absolutely true. Other valve grinders posessing this oscillating motion backward and forward through the same arc, or with a rotary motion, are very apt to cut grooves in the valve seat and wear it away much more quickly. Packed in the box with this tool will be found two sizes of small coil for front of machine, which can be raised out of the way when the machine is being transported or moved, and are also intended to give the proper pitch to the mavalve, thus allowing new grit and oil to of large diameter and the drums being fall details will in the frame, and the other gears and the during the process of grinding. This coil pinion are of steel, and the construction throughout is extra heavy, the shafts being middle West passes.

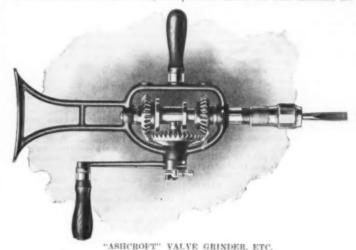
ables the operator to grind the valves more smoothly and quickly. The life of the valve is thus greatly prolonged.

"As a breast drill this tool can be used when applying trimmings or accessories to an automobile or for removing pins and screws, and for many other contingencies which constantly arise when it is desired to maintain an automobile in perfect running order.

"As a ratchet the tool can be used, with

run in on the bearing surfaces, which en- bronze bushed according to the Mead-Morrison Manufacturing Co.'s usual practice. All thrust surfaces are of large area, and are provided with renewable split bronze thrust washers. Each spool is provided with a clutch lever, by means of which it. can be unclutched from the shaft when desired.

> One of the machines has two drums and four spools, whereas the machine illustrated has three drums and six spools. The electric motors for both machines are of



movement, for removing or inserting screws in awkward or inaccessible positions, and for drilling and tapping in places where a full swing of the operating crank cannot be obtained by the operator,'

Electric Erecting Machines.

The Mead-Morrison Manufacturing Co. of Cambridge, Mass., was recently awarded contract to build electric erecting machines for the McClintic-Marshall Construction Co. of Pittsburg. These machines are of special and heavy construction, and one of them is illustrated herewith.

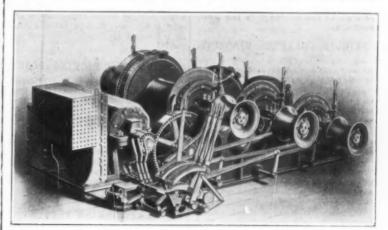
One of the important advantages is the use of the Mead-Morrison patent twin screws, by means of which the friction drums are operated, the construction and arrangement of the twin screws making it possible to extend the shaft beyond the thrust bearing to receive the spool, and this extension is effected without in any way reducing the efficiency or satisfactory operation of the friction drums. The twin screws are of small diameter, and the same ensitiveness and power of operation is obtained as with the usual arrangement of

either a right-hand or left-hand ratchet the heavy mill type, and the controller is operated by a hand lever carried in the quadrants with the friction operating

> The Mead-Morrison three-drum hoist was designed for handling girders up to 100 tons in weight, and was furnished equipped with a 100-horse-power motor. The two-drum machine was furnished with a 75-horse-power motor and geared for handling loads up to 50 tons at somewhat higher speed.

Dauphin Island Railway & Harbor Co.

The Dauphin Island Railway & Harbor Co. has been incorporated for the purpose of dredging a 30-foot channel from Mobile Bay to Dauphin Bay, building docks, wharves and other coaling facilities on Dauphin Island at the mouth of Mobile Bay, near Mobile, Ala.; constructing a railway to Mobile, etc. This company's officers are: President, Geo. T. Bishop, Cleveland, O.; vice-president, Graves, Chicago; secretary, J. M. Dewberry, Birmingham, Ala., where the company's main offices are located. They and Frank II. Senn of Cleveland and D. E.



ELECTRIC ERECTING MACHINE.

engines.

In the arrangement of this machine the cut-steel gearing at the motor is kept with-

outside screws furnished with contractors' | Mitchell of Lebanon, Tenn., are the directors. Mr. Dewberry telegraphs the MANUFACTURERS' RECORD that an expenditure of \$900,000 is planned, and that full details will be announced later.

> Large parties of homeseekers from the middle West passed through Jacksonville,

Construction Department

TO OUR READERS!

In order to understand and follow up properly the Construction Depart ment items, please bear in mind the following statements:

EXPLANATORY

The MANUFACTURERS' RECORD seeks to verify every item reported in its Construction Department by a full investigation and complete correspondence with everyone in terested. But it is often impossible to de this before the item must be printed, or else lose its value as news. In such cases the lose its value as news. In such cases the statements are always made as "rumored" or "reported," and not as positive items of news. If our readers will note these points they will see the necessity of the discrimination, and they will avoid accepting as a cer-tainty matters that we explicitly state are "reports" or "rumors" only. We are always glad to have our attention called to any errors that may occur.

In correspondence relating to matters re ported in this paper, it will be of advantage il concerned if it is stated that the in-nation was gained from the MANUFAC-

ADDRESS FULLY

To insure prompt delivery of communications about items reported in these columns the name of one or more incorporators of newly incorporated enterprise rise should be shown on the letter address snown on the letter addressed to that town, or to the town of the individual sought, as may be shown in the item, as sometimes a communication merely addressed in the corporate or official name of a newly established pany or enterprise cannot be delivered company or enterprise cannot be derivered by the postmaster. This will help to insur-prompt delivery of your communication although it is inevitable that some failured on the part of the postal authorities to de liver mail to new concerns will occur.

WRITE DIRECTLY

It is suggested to advertisers and readers that in communicating with individuals and firms reported in these columns, a letter written specifically about the matter re-ported is likely to receive quicker and surer attention than a mere circular.

The Daily Bulletin of the Manufac-The Daily Bulletin of the Manufacturers' Record is published every business day in the year for the purpose of giving the earliest possible news in regard to new industrial, railroad and financial enterprises organized in the South. It is invaluable to contractors, manufacturers, engineers and all others who want to get in touch at the earliest moment with new undertakings or the enlargement of established enterprises. The subscription price is \$25 a year. largement of established enterprises.
The subscription price is \$25 a year.
All advertising contracts in the
Manufacturers' Record extending
over a period of three months include a subscription for the length of time of the contract to the Daily

BRIDGES, CULVERTS, VIADUCTS

Ala., Anniston.—Calhoun county awarded contract to J. A. Garbury, Jacksonville, Fla. to construct concrete bridge on Weavers road.

Ala., Lillian,-Pensacola & Southern Rail-(co., Chas. Barclay, president, will erect as Perdido Bay wooden bridge on piles, feet, with 30-foot steel draw span.

Ark., Little Rock.-City will construct con crete culvert through Vance St. between 14th and 15th Sts.; F. M. Oliver, clerk. (See "Machinery Wanted.")

Ga., Macon.-Blbb County Commissioner rill issue about \$500,000 of bonds for improve ment of bridges, etc. (See "Road and Stree Improvements.")

Md., Baltimore.-Board of Awards awarded contract to Lauer & Harper Company, West-port, Md., for construction of steel bridge over Gwynn's Falls at Franklin Rd.; cost about \$5000. (Recently mentioned.)

Md., Denton. — Caroline County Commissioners are considering construction of bridge over Choptank River. (See "Road and Street Improv

Mo., Kansas City.—Atchlson, Topeka & Santa Fe Railway, C. A. Morse, chief engi-neer, Topeka, Kans., and other railroads have been authorized to rebuild Hannibal bridge.

Okla., Oklahoma City,-City will construct concrete culverts and bridges on Grand

Blvd.: bids to be opened May 2; Paul M. Pope, secretary Park Co Machinery Wanted.")

Okla., Pryor.—Mayes County Commissioners are considering issuance of \$100,000 of conds for construction of bridges over Grand River and smaller streams

S. C., Spartanburg.-Bids will be op May 5 for construction of wooden bridge creek on road leading from Landrum to North Carolina line, and another about one haif mile below said bridge over same creek on May 18 for construction of bridge, eithe wood or steel, over Lawson's Fork Martin, clerk of Commission, (See "Machin ery Wanted")

Tenn. Hickman.-Fulton county will of struct five steel bridges; contracts awarded. Address County Commissioners.

Tenn., Morristown.-Hamblen and Cocke awarded contract to Converse Bridge Co., Chattanoga, Tenn., at \$597 to construct steel bridge across Nola Chucky River at Inman's Ferry. (Recently men-

Tex., Cameron.—Milam county will con truct steel bridge across San Gabriel Rive at Glasscock Crossing; County Commissi ers will open bids May 18.

Batesville.—Zavalla county 00 bond Issue for construction of bridges and roads. Address County Commissioners.

Tex., Dallas.-Dallas County Commi rs adopted arch design of Ira G. Hedrick kansas City, Mo., for Dallas-Oak Cliff via-duct; timber piling under each river plet and concrete piling under four piers nearest river piers; width in clear of 50 feet; 40 feet between curbs and two 5-foot sidewalks; or entation, including hand rail, lamp p ric wiring, to cost \$31,779; total cost, \$72,000. Mr. Hendrick has engaged as pasulting Witt, County Engineer. (Previously

Tex., Houston.-Houston-Bay Shore Trac tion Co. contemplates construction of 19
bridges and culverts on railway to be constructed from Houston to La Porte; structures will be principally of concrete, excepting one over Southern Pacific Railway tracks at La Porte, which will be of steel.

engineer for city, has been instructed by II B. Rice, Mayor, to prepare plans for rein-forced concrete viaduct across Houston ship el at foot of Main St. (Recently men

Tex., Houston.—F. L. Dormant, en of Houston, has completed plans for posed viaduct over Buffalo Bayou b fravis and 6th Sts.; structure is to be 46 feet above mean low tide; top to be covered with brick pavement; will be supported by reinforced concrete columns built on each ide of stream.

W. Va., Point Pleasant.—Kanawha & Michigan Railway, F. B. Sheldon, chief engineer, Columbus, O., awarded contract for raising bridge at Point Pleasant; proposed to raise track 22 feet above Hocking Valley, which is to be crossed by treatle; estimated cost,

CANNING AND PACKING PLANTS

Ark., Little Rock.-Little Rock Pres Co. (recently reported organized with \$20,000 capital stock, Ernest R. Ratterree, presi-dent) will erect cannery; two stories; 172x24 feet; capacity, 24,000 cans of goods per 21

Tex., Houston.-Knadler & Lucas, Louis lile, Ky., contemplate establishment of pickle factory.

W. Va., Fairmont.—Wise Packing Co. Inco-porated with \$50,000 capital stock by J. Wise, W. F. Wise, M. A. Jolliffe and others.

CLAYWORKING PLANTS

Ga., Augusta-Bricks.-L. H. Hankinson and John C. Hagler will establish brick plant; cost \$100,000; machinery purchased

Ky., Louisville-Sewer Pipe.-H. B. Milli ten Sewer Pipe Co. incorporated with \$5000 capital stock by Harry B. Milliken of Louis-dile, Henry Bosquet and John Meyer of New Albany, Ky.

Md., Hagerstown — Brick. — Hagerstown Brick Manufacturing Co. organized with I. M. Wertz president, J. Grason Steffey vice-president, Nervin J. Brandt secretary-treas-

N. C., Polkton.—Polkton Brick Co. (re-cently reported incorporated with \$100,000 capital stock) will operate plant with daily capacity of 29,000; has purchased machinery will erect sheds; J. C. Goodman, president T. R. Troutman, secretary-treasurer.

Okla., Oklahoma Cltv-Bricks.-Wm. Smith, 431 North Robinson St., interested in organization of company to establish plant with annual output of 10,000,000 bricks; has ot purchased machinery and is prepared to receive estimates and data. (See "Machinry Wanted.")

Tex., Ferris-Brick.-Glove Pressed Brick Co. will rebuild plant reported burned; los \$30,000 to \$40,000

Va., Rosslyn-Clay Products.-Material Co. incorporated with \$15,000 capital stock; W. L. Jackson, president; Charles Walden, vice-president; Edwin Smith, secre-

COAL MINES AND COKE OVENS

Del., Wilmington.—United Southern Appropriate Coal Fields chartered with \$10,000,00 capital stock; address, care of Delaware

porated with \$10,000 capital stock by C Kennedy, R. H. Newett and Thom

Middlesboro.-Edgewood Coal & Coke Ky., Middlesboro.—Edgewood Coal & Coke Co., H. M. Johnston, secretary, and Sham-rock Coal & Coke Co., Walter Shuff, secre-tary, will consolidate as Edgewood Consoli-dated Coal Co. with \$150,000 capital stock. (Each company reported in January to in crease capital stock from \$30,000 to \$60,000

Mo., St. Louis.-Wilson Coal Co. incorpo rated with \$25,500 capital stock by William A. Browniee, George P. Wilson, Alex. A A. Brownlee, Geo Bryden and others.

Va., Keokee.—Stonega (Va.) Coke & Coal Co., D. B. Wentz, president, Philadelphia, Pa., telegraphs Manufacturers' Record that Keokee Consolidated Coke Co., including 9500 acres coal land in Lee and Wise counties, 700 coke ovens, and mines with annual output of 750,000 tons coal.

W. Va., Charleston. - Horse Creek Co increased capital stock from \$508, 50 to \$550,000; contemplates lands on tributaries of Coal River.

W. Va., Clarksburg.-Byron Coal Co. porated with \$25,000 capital stock by John K Wimbrough and Isham Keith, both of Clarksburg; Henry J. Glick and W. C. De-vecmon, both of Cumberland, Md., and M. P. Gannon, Westernport, Md.

W. Va., Peytona.—Peytona Block Coal Co. (recently reported incorporated with \$50,000 rapital stock) will develop 943 acres; W. H. Warner, Cleveland, Ohio, president; Hall, Ashland, Ky., vice-president; Whitz Warner, also of Cleveland, treasurer; C. Mead, secretary and manager.

COTTON COMPRESSES AND GINS

N. C., Raleigh.-North Carolina Cotton Oil bales of cotton; will install four additional stands; also install additional linters at oil mill and make other improvements

S. C., Clarks Hill.—Farmers' Ginnery, W. '. King, manager, contemplates installation P. King, manager, contemplates of additional machinery. (See Wanted.")

incorporated with \$80,000 capital W. B. Chew. John W. Sanders and James D.

Tex., Houston.-Merchants' Compre incorporated with \$80,000 capital stoc W. B. Chew, John W. Sanders and Jam

Tex. Lott.-Farmers' Gin Co. (recently re ported incorporated with \$6000 capital stock) will operate gin and erect 20x80-foot build ing; wood and steel; metal siding and roof; o machinery needed; daily capacity, 50 ales of cotton; J. G. Ruble, president; J. B.

Tex., Petty. - Farmers' Co-operative Co., recently reported incorporated with \$9000 capital stock, will erect 20x110x24-foot building; mill construction; probably day labor; cost \$2000; plans by Continental Gin-ning Co., Birmingham, Ala.; 60 bales of cotton per 10 hours; machinery mainly pur-

COTTONSEED-OIL MILLS

Miss., Tie Plant.—Cottonseed & Fiber Co. neorporated with \$100,000 capital stock by J. J. Longstreet of Jackson, Miss., and W. A. Follock of Vicksburg, Miss.

N. C., Raleigh.—North Carolina Cotton Oil o. will install additional linters and make other improvements. (See "Cotton Compresses and Gins.")

N. C., Statesville,-Statesville Oil & Fer-Co. changed name to Imperial Cotton Oil Co, and increased capital stock to \$150, contemplates erection of number small mills and ginneries.

S. C., Columbia.-Woodruff Cotton Oil Co. ncreased capital stock from \$20,000 to \$35,000. Tenn., Memphis.—Producers' Cotton Oil o. incorporated with \$100,000 capital stock by Otto Seyppel, H. D. Tomlinson, W. E. Lambreth and others.

Tex., Corsicang,-Elm Hill Oil Co. Inco webb, R. C. Sanders, E. B. Murrell and others.

DRAINAGE AND IRRIGATION SYSTEMS

Fla., Tallahassee.—Board of Drainage Com-missioners of Florida, J. C. Luning, secre-tary, will open bids June 15 for excavation of five drainage canals in the Everglades: gregate length, 215 miles; excavation, 15,750,000 cubic yards of earth and 5,250,000 cubic yards of rock; J. O. Wright, chief drainage (Recently mentioned. See "Mangineer. chinery Wanted.")

-W. L. Bowers, ditch com Ky., Paducah. missioner for McCracken county, will open bids May 7 for construction of public drain-age ditch. (See "Machinery Wanted.")

La., New Orleans.-New Orleans Drainag Co., recently reported incorporated with \$2,500,000 capital stock, has acquired 34,000 acres of land on borders of Lake Pontchartrain within city limits of New Orleans, and will construct system of drainage prepara tory to cultivation; Warren B. Reed, president, New Orleans; John Stuart Watson, vice-president, Chicago, Ill.; James B. Pike. secretary-treasurer, New Orleans; work will be under supervision of Mr. Reed.

Kansas City.-Chama Valley Land & Irrigation Co. incorporated with \$100,000 capital stock by Albert D. Hart, William Kent and E. E. Auchmoody.

Mo., St. Louis .- Northrup Land Co. centily reported incorporated with \$26,000 capital stock by James T. Dugan, George Northrup and others) will drain and develop 15,000 acres of timber land in Cape Girardeau county; cost of improvement, \$30,000; will open bids for construction in spring 1911; engineer not engaged.

ELECTRIC-LIGHT AND POWER PLANTS

Ala., Bear Creek.-N. W. Renefield and as Ana. Dear trees.—N. W. Bedeleid and us-sociates plan water-power-electrical plant. Including construction of dam, installation of water-wheels and electrical generators. stringing of wires, etc.; have not engaged engineer or ordered machinery. (See "Ma-

Ala., Sylacauga.—City will receive bids until May 2 on 16 miles of electric transmission line recently mentioned; S. P. McDonald, Mayor. (See "Machinery Wanted.")

Ark., Green Forest.—Ben Harbert, F. R. Morrow, R. L. Jernigan, W. L. Sneed and J. B. Reeves have organized company to construct electric-light plant, cold-storage and ce plant ; cost \$5000.

Ark., Judsonia.—T. H. Beals will erect building and Install electric-light plant. (See "Ice and Cold-storage Plants.")

Fia., Fort Dade, P. O. Egmont.-Bids will be opened May 20 for construction of electric-light system, consisting of inside and outside wiring, transformers, engines and generators and addition to power-house. Address Constructing Quartermaster. (See "Machinery

Ga., Albany.-Albany Power & Manufactur-Ga., Albany.—Albany Power & Manufacturing Co. is having plans prepared by J. E. Sirrine, Greenville, S. C., for auxiliary steam-power plant to be constructed on Muckafoonee Creek; 1000 horse-power; cost \$56,000. (Recently mentioned.)

Ga., Fairburn.—City is considering construction of electric-light plant and waterworks. Address The Mayor.

works. Address The Mayor.
Ga., Rocky Ford.--Zeigler Company of Sa

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vannah, Ga., and Jacksonville, Fla.; Arthu; Barke, vice-president of Bank of Rocky Ford, at Rocky Ford; O. H. Marsh, cashier of People's Bank, Oliver, Ga., and others are, it is reported, organizing company to build two water-power-electrical plants on Ogecchee River, near Oliver and near Rocky Ford; 46 and 64 miles from Savannah; dams and buildings of reinforced concrete; estimated to develop 11,000 horse-power for transmission by electricity; two plants estimated to cost \$700,000.

Ga., Stone Mountain.—Yellow River Power Co. incorporated with capital stock of \$1,000,000 to build water-power-electrical plant on Yellow River 4½ miles from Stone Mountain; construct concrete dam to develop 15,000 horse-power for transmission by electricity; incorporators, J. B. McCrary, Empire Bidg., Atlanta, Ga., and associates.

La., Shreveport.—Henry M. Dawes, president, 621 New York Life Bldg., 171 La Salle St., Chicago, Ill., advises that \$600,000 bond issue recently arranged by Shreveport Gas, Electric Light & Power Co. was for retirement of consolidated bond issue; also for purpose of paying for permanent improvements and additions to property, some of which have been made; company's Shreveport address, 114 Texas St.

Md., Baltimore.—United Railways & Electric Co., Continental Bldg., awarded contract to John Cowan, 106 West Madison St., Baltimore, to enlarge Pratt-street power-house; addition will consist of two one-story fire-proof structures to be used as passageways adjoining main structure; each will be 6x43 feet; concrete construction; slag roof; cost \$5500.

Md., Baltimore.—Sisters of Notre Dame. Charles-Street Ave. Ext., awarded contract to Crook, Kries & Co., 227-231 West Saratoga St., Baltimore, to install heating and ventilating apparatus, electric engine and generator in power-house; entire plant is to be remodeled; improvements to include 250-horse-power water-tube boiler, extension of cable mains from power-house to buildings in tunels, etc.; cost \$25,000; Thomas C. Kennedy, 516 Law Bidg., Baltimore, is architect; Chas. L. Reeder, 919-921 Equitable Bidg., Baltimore, is consulting engineer. (Recently mentioned under "Schools.")

Mo., Savannah.—F. C. Barrington, president and manager Columbian Electrical Co., \$20 Frederick Ave., St. Joseph, Mo. (recently noted to petition Savannah City Council for electric-lighting franchise), states that proposition is to rebuild pole line and electric-light system, with exception of power-house, where only transforming station will be installed; high-voltage line (about 10,000 volts) to be conveyed from St. Joseph to Savannah; improvements also include changes in water-works system; electrically-driven pumps to be installed; transmission line to cost \$16,000; cost of Savannah construction, \$15,000.

Mo., Trenton.—City defeated \$55,000 bond issue for construction of electric-light and power plant; R. T. Preston, City Clerk. (Recently mentioned.)

N. C., Fort Caswell.—Bids will be opened May 25 for installing electric-power plant and electric-lighting system; Lieut. W. E. McCleary, C. A. C., Constructing Quartermaster. (See "Machinery Wanted.")

N. C., Lobelia.—J. R. McQueen and others, Lakeview, N. C., purchased Morrison Mill site on Lower Little River; will erect electric plant to supply power for operation of Vass Cotton Mill at Vass, N. C., for lightlug, etc.; transmission line will extend distance of seven and a half miles.

Okla., Fairview.—City contemplates extending electric-light system. Address The Mayor. (See "Water-works.")

Okla., Mountain View.—City will construct electric-light plant; bids will be opened May 4 for furnishing generator, exciter and switchboard, etc.; O'Neil Engineering Co., engineers in charge, Dallas, Tex. (See "Machinery Wanted.")

S. C., Easley.—City voted issuance of \$29, 500 of bonds for construction of electric-light plant and water-works. Address The Mayor.

Tenn., Trenton.—City voted to purchase Keenan & Wade's electric-light plant, and will vote again May 20 on Issuance of \$12,000 of bonds for installation of electric-light plant. Address The Mayor. (Recently mentioned.)

Tex., Brunner, P. O. Houston.—Brunner Water & Light Co. awarded contract to D. D. Pittman of Houston to creet power-house for electric-light and water plant. (Previously mentioned.)

Tex., Houston.—I. D. Polk applied for franchise to construct and operate electric-light and power plant.

Va., Graham.-Graham Water & Electric

Co., V. L. Sexton, president, organized with \$25,000 capital stock.

Tenn., Erwin.—Nolachucky Power Co. applied for Incorporation; mentioned several weeks ago as to construct water-power-electrical plant; reported dam will be of reinforced concrete, 400 feet long, 30 feet high, 30 feet thick at base and 15 feet at top; develop 3500 horse-power; K. S. Finch, president, Charlotte, N. C.

Tex., Hempstead.—Company has been organized with \$10,000 capital stock to construct electric-light plant; J. D. Harvey, president; J. C. Amsler, secretary.

Va., Roanoke.—Norfolk & Western Railway, Chas. S. Churchill, chief engineer, Roanoke, will expend \$25,000 on recently noted power-house and machine shops; brick structure, 73 feet 10 inches by 103 feet 6 inches, and 39 feet high to the square; concrete foundations; steel roof framing covered with slate roof; one story; building material locally supplied; contractor, Joseph C. Nesbit, Roanoke (not J. C. Nesbit & Co., as recently incorrectly noted).

W. Va., Martinsville. — New Martinsville Heat & Power Co. (branch of Mountain State Electrical Co.), Wheeling, W. Va., will expend \$10,000 in installation of gas engines to replace steam engines.

FERTILIZER FACTORIES

Ala., Anniston.—Jacksonville (Ala.) Fertilizer Co. will establish fertilizer factory. Fla., St. Petersburg.—R. Veillard will establish fertilizer plant.

Ga., Dublin.—Consolidated Phosphate Co., Izzle Bashinski, president, awarded contract to Pratt Engineering & Machine Co., Atlanta, Ga., for engineering, machinery and construction of acid-phosphate plant recently noted; electrically-driven power; plant to be in operation by middle of July; annual capacity, 30,000 tons.

Tenn., Limestone.—Dan Walters, Johnson City, Tenn., will establish fertilizer factory install machinery for grinding limestone rock; initial capacity, 25 tons daily.

FLOUR, FEED AND MEAL MILLS

N. C., Claremont.—Monitor Milling Co. incorporated with \$20,000 capital stock by J. W. Setzer, R. R. Huitt and C. A. Shook; purchased mill of R. R. Huitt; Mr. Huitt, vicepresident; A. Shook, treasurer.

N. C., Lumberton. - Lumberton Novelty Works will establish corn mill. (See "Woodworking Plants.")

Okla., Madill.—Marsh Milling & Grain Co. Increased capital stock from \$20,000 to \$30,000.

S. C., Walterboro.—J. S. Jordan, Round, S. C., will erect storeroom for grain and provisions and install gasoline engine and grist mill for grinding corn, cow feed, etc.

Tenn., Belvidere.—Belvidere Milling Co. incorporated with \$10,000 capital stock by Willlam H. Ripple, Henry Warmbrod, Robert J. Eichenberger and others.

FOUNDRY AND MACHINE PLANTS

Ala., Birmingham — Pipe and Fittings. — Stockham Pipe & Fitting Co. Increased capi tal stock from \$150,000 to \$300,000.

Ga., Rossville—Combing Gins, etc.—Southern Combing Gin Co. Incorporated with \$90,000 capital stock; Carl White, president; G. F. Meehan, vice-president; L. M. Ganler, secretary; main office and plant at Rossville; branch office, 13-15 West 9th St., Chattanooga, Tenn.; succeeds Fuller Combing Gin Co.; manufactures combing gins, linters and cotton machinery; will expend \$15,000 for timprovements.

Ky., Louisville.—Louisville Car Wheel & Railway Supply Co. awarded contract to Sneed Architectural Iron Works, Louisville, for erection of machine shop recently noted; 60x30 feet; ateel construction; machinery purchased.

Lm., Thibodaux — Sheet Iron and Boiler Works.—Theodore Dupre and Charles A. Bergeron will establish sheet-metal and boiler works.

Mo., St. Louis—Mining Machinery.—Frank L. Buchanan Mining Machinery Manufacturing Co., 605a-606 Houser Bidg., incorporated with \$100,000 capital stock; Frank L. Buchanan, president; J. H. Stump, vice-president; R. G. Phillipson, secretary; A. T. Howard, treasurer; J. 8. Brownfield, manager; will install equipment, including power lathes, drills, emery wheels, too:s, etc., to manufacture rock breakers, pulverizers and mining outfits; machinery to cost not less than \$5000; will erect one-story \$0x150-foot building with timber frame and corrugated-iron covering at cost of \$2000; will operate additional plant outside of city.

Mo., St. Louis — Wrapping Machines, — American Wrapping Machine Co. incorporated with \$50,000 capital stock by H. Sterling Wilson, D. S. Brackett, M. D. Gibson and others.

N. C., Charlotte,—Mr. Mullace, Sattes, N. C., and Mr. Fray, Spencer, N. C., will establish machine shop and foundry.

8. C., Anderson-Foundry,—Anderson Machine & Foundry Co., recently noted to increase capital stock to \$20,000, has plans by J. H. Casey, Anderson, for 40x149-foot buildlng; mill construction; cost \$3000.

8. C., Lexington-Machine and Repairs.— Rickard Supply Co., recently reported incorpotated (under "Miscellaneous Enterprises") with \$5000 capifal stock, will conduct automobile and general repair shop; will erect freproof building and install general machine and repair shop equipment at cost of \$2500; S. P. Roof, president; H. D. Lybrand, vice-president; N. P. Shipp, secretary-treas urer; Frank W. Shealy, manager. (See "Machinery Wanted.")

Tenn., Bristol-Foundry.-Enterprise Foundry and Machine Works will increase capital stock from \$30,000 to \$50,000 and enlarge plant.

GAS AND OIL DEVELOPMENTS

Ark., Fort Smith.—Southern Oil & Gas Co. Incorporated with \$6000 capital stock by M. C. Burke (president), W. D. Young, W. A. Biack and others.

Ky., Louisa.—Sandy Valley Oil Co. Incorporated by William Carey, G. R. Burgess and James L. Carey.

Okla., Sapulpa.—Angalize Oil & Gas Co. Incorporated with \$5000 capital stock by J. C. Cutchall, Fred Markham and W. A. Wise.

Okla., Tulsa.—Paulding Oil & Gas Co. incorporated with \$10,000 capital stock by R. W. Kellough, F. B. Dillard and R. R. Poe.

W. Va., Clarksburg.—Eagle District Gas Co. incorporated with \$25,000 capital stock by Boyd E. Horner, C. Cordial, Osman E. Swartz and others.

ICE AND COLD-STORAGE PLANTS

Ark., Green Forest.—Ben Harbert and others organized company to establish ice and cold-storage plant. (See "Electric-light and Power Plants.")

Ark., Judsonia.—T. H. Beals will erect building; lower floor for meat market, coldstorage and electric-light plant, and upper floor for public hall; 42x95 feet; two stories; brick; will open buildings proposals in July.

Ark., Little Rock.—B. Borden Commission Co. contemplates installation of small coldstorage plant. (See "Machinery Wanted.")

Ga., Nashville.—Nashville Ice & Manufacturing Co. incorporated with \$10,000 capital stock by Ben A. Deal, Jr., and William Algee, both of Valdosta, Ga.

Ky., Cloverport.—Cloverport Ice Co. organized with J. A. Barry, president and general manager; Dr. Simons, vice-president; H. A. Oelze, treasurer; Marion Weatherholt, secretary; will operate 10-ton ice plant; machinery installed.

Tex., Pearsall.—Pearsail Water, Light & Ice Co. (recently reported incorporated with \$50,000 capital stock by George F. Hindes and others) purchased and will install 15-ton ice plant, 100-foot tank tower and 60,000-gallon tank, etc.

Va., Norfolk.—Commonwealth Storage & Ice Co. Incorporated with \$250,000 capitatock; R. B. Fentress, president; B. W. Leight, vice-president; A. E. Krise, secretary-treasurer; successor to Norfolk Cold Storage & Ice Co.; storage capacity, 400,000 cubic feet.

LAND DEVELOPMENTS

Ala., Birmingham.—Club Terrace Land Co. incorporated with \$300,000 capital stock; W. S. Mudd, president; George T. Brazeltou, vice-president; W. H. Bason, secretary; Stephen Smith, treasurer.

Ala., Boyles, P. O. Birmingham.—Tarrant I and Co. organized with F. I. Tarrant president; George B. Tarrant secretary; will develop 600 acres near Boyles; divide into lots, grade streets, install sewerage and water systems, etc.

Ala., Ensley. — Corey-Highlands Land Co. incorporated with \$70,000 capital stock; Edward Warren, Jr., president; J. K. Warren, secretary-treasurer, both of Birmingham, Ala.; purchased 103 acres of land in Possum Valley near Ensley and will develop town.

Ala., Mobile.—Lyons Company incorporated with \$100,000 capital stock by Emily C. Lyons, Robert T. Ervin and Joseph M. McAleer.

Ark., Blytheville.—Barron-Lilly Land Development Co., J. W. Barron, president, recently reported incorporated with \$25,000

capital stock, will develop timber land; main office, Blytheville; branch offices in Northcast Arkansas.

Ark., Little Rock.—North Arkansas Townsite Co. incorporated with \$50,000 capital stock by W. B. Smith (president), R. C. Wilkins and F. J. Schuntz.

Ark., Rector.—S. P. Weigart and associates of Blue Cave township are arranging to establish townsite and extend railroad to property.

D. C., Washington.—Connecticut Avenue Highlands Co., J. W. Steacy, president, York, Pa., has engaged W. F. Matheson, 613 Evans Bidge. New York Ave., Washington, to direct development of portion of Connecticut Highlands; residential section; improvements consist of grading, construction of granulithic sidewalks, sewer and water-works; cost of improvements, \$160,000; D. J. Howell, ebgineer in charge, Washington; John H. Dobling, York, Pa., has contract for grading. (Recently noted.)

D. C., Washington.—Maryland Realty Syndicate incorporated with \$15,000 capital stock; has purchased 66 acres of land in Montgomery county, Maryland; will subdivide, grade streets, etc.; J. M. Woolford, president; H. E. Allison, vice-president; H. Taylor, secretary.

Fla., Anthony.—Anthony Farm Co. organized with \$300,000 capital stock; Arthur A. Partridge, president, 8t. Louis, Mo.; J. C. Howell, vice-president and general manager, Anthony; H. C. Balley, secretary-treasurer, Jacksonville, Fin.; purchased about 5000 acres of land near Anthony and will develop for farming; main office, Ocala, Fla.

Fla., Taft.—Prosper Colony Manufacturing Co. organized with \$100,000 capital stock; Nicholas Dennis, president; Henry C. Hammond, secretary; will establish colony; install ice and electric-light plants; manufacture barrels, orange boxes, vegetable crates, sash, doors and blinds, sugar-cane and cassava products, brooms and denatured alcohol.

La., New Orleans.—Beile Chasse Land Co., Ltd., incorporated with \$200,000 capital stock; William Andrews Collins, president; E. N. Evans, vice-president; Charles S. Hardy, secretary-treasurer.

Evans, vice-president; Charles S. Hally, secretary-treasurer. Mo., 8t. Louis.—John F. McDermott purchased, for syndicate, 290 acres of land for \$220,000; will divide into 3000 lots about 30x125 feet and develop for residence section.

N. C., Cameron.—John T. Patrick, Wades boro, N. C., will organize land-development company. N. C., Raleigh.—E. P. Wharton and asso-

clates of Greensboro, N. C., purchased III acres of land on Hillsboro Rd, for \$90,000 will develop as residential section.

Okla., Dougherty.—Dougherty Development Co. incorporated with \$10,000 capital stock by G. A. New, J. E. Stephens, both of Dougherty, and S. A. Newland of Anderson, Okla.

Okla., Foraker.—Foraker Building & Investment Co. Incorporated with \$10,000 capital stock by J. R. Roberts, J. D. Dunn and F. M. Roberts.

Tenn., Buntyn.—Country Club Place Realty Co. (recently reported at Memphis, Tenn., incorporated with \$155,000 capital stock) organized with W. H. Reid, president; R. L. Jones, vice-president; Hugh A. Banks, secretary-treasurer, all of Memphis; purchased 153 acres of land for \$155,000 and will develop; survey and subdivide into two, three and five-acre tracts; install electric lights and gas and construct water plant; cost of contemplated improvements \$100,000.

Tenn., Nashville.—Edgar Jones Realty Co. Incorporated with \$50,009 capital stock by Edgar Jones, Foster Jones, Hume Jones and others.

Tex., Austin.—Travis Heights Co. incorporated with \$30,000 capital stock by H. A. Wroe, Jefferson Johnson, T. H. Davis and others.

Tex., Hidalgo County. - F. H. Jackson, Houston, Tex., purchased 15,000 acres of land, which will be added to 24,000 acres now owned and developed for colonization.

Tex., Harlingen.—Lizmar Plantation Co. ircorporated with \$15,000 capital stock by R. P. Martin, S. C. Tucker and L. R. Burress.

Tex., Donna—Sugar Lands.—Alamo Land & Sugar Co. Incorporated with \$4,000,000 capital stock by L. A. Smartt of Donna, Charles J Winter of Washington, Ia.; A. F. Commer, Thomas S. Miller and James A. Tabor of Chicago; to develop sugar lands in Hidaigo county.

Tex., Ramsdell.—Ramsdell Development Co. Incorporated with \$30,000 capital stock by Ed. R. Wallace, Mike Ditto and J. F. Yates.

Tex., Tyler-Nursery.-East Texas Nursery Co. (recently reported incorporated with \$50,000 capital stock) will cultivate fruit and ornamental trees; Ed W. Mims, president and manager; C. C. Crews, vice-president; II. W. Barnes, secretary; J. M. Mims, treas-urer; building plans not decided.

Va., Big Stone Gap.—Nolichucky Land & Development Corporation incorporated with \$100,000 capital stock; B. S. Gore, president M. P. Burke, vice-president, both of Johnson

Va., Cape Charles.-Cape Charles Real Es tate Corporation incorporated with 225,000 capital stock; J. V. Moore, president; R. D. L. Fletcher, vice-president; F. T. Wilkins,

Va., Roanoke.-Ghent Heights Corporation incorporated with \$5000 capital stock; H. H. Markley, president; D. W. Persinger, secre-tary-treasurer.

Va., South Hill.-White Land Co. incorrated with \$5000 capital starts with \$5000 capital stock; C. H. White, ent; Lizzie E. White, vice-president; J. White, secretary-treasure

W. Va., Clarksburg.—Hatland Improvement Co. Incorporated with \$50,000 capital stock by John B. Hart, C. B. Alexander, II. on and others

LUMBER-MANUFACTURING PLANTS

Ala., Bay Minette.—Bacon-Underv neer Co., Mobile, Ala., will establish veneer factory; John McMillan will be manager; vill erect concrete-block building.

Ala., Talladega. - Jackson-Tinney Lumber Co. will erect addition to plant.

Ark., Cotton Plant .- Southwestern Vo Ark., Cotton Frant.—southwestern ven o. Incorporated with \$50,000 capital sto. M. Bush, president; J. L. Bates, v resident; R. A. McClure, secretary-tree secretary-treas urer, all of Sinclairville, N. Y.

Ark., Glenwood.—A. V. Alexander of Glenwood Sawmill Co. purchased and will install sawmill.

Ark., Lewisville.-Mansfield Hardw ncreased capital stock from \$25,000 to \$100,000 Ark., Texarkana.—R. L. Trigg Lumber Co. rated with \$10,000 capital stock by R. L. Trigg, Joes Fuqua and R. W. Johnsto

Ark., Texarkana. — Walker-Johns Timber. Land & Lumber Co., 303 State National Bank Bldg., organized to develop timber lands has mill at Wilton, Ark.; will install new mill at Ogden, Ark. (Recently incorrectly noted as "Walter-Jones" Company.)

Fla., Jacksonville.—T. V. Cashen Lumber Co. will construct saw and planing mill on Big Pottsburg Creek; daily capacity over 50,000 fect of lumber.

Fla., Tampa.—Hall Lumber Co., recently reported organized with \$300,000 capital stock, will succeed Tampa-Havana Lumber Co.; purchased saw and planing mills at Terrell, Fla.; also purchased other mills and 48,000 acres of timber land in South Florida; R. S. Fla.; also purchased other mills and 48,00 acres of timber land in South Florida; R. S Hall, president; Chas. H. Brown, secretary

Atlanta.-Howard Lumber Co. h porated with \$25,000 capital stock by E. W Howard, M. N. Ham, James Evans and others

La., Abbeville.-Baldwin (La.) Lun purchased timber lands and will establish dant for manufacturing crossties, etc.
Ga., Blue Ridge.-W. J. Chastain, L.

Edwards and W. A. Davis purchased about ,000 acres of timber lands and will develop

La., New Orleans. - Pearlington Lumber o. incorporated with \$100,000 capital stock Joseph J. Favre, Isaac Toomer and O.

N. C., Leaksville.—Trogdon Lumber Co. in-corporated with \$25,000 capital stock by W. B. Trogdon, W. L. Walker and D. T. King; will operate lumber mill; daily capacity, 10,000 feet pine lumber.

N. C., Monroe,-Lake Land & Lumber Co. in corporated with \$100,000 capital stock by J. R. English, S. O. Blair and others.

Tenn., Columbia.-Alford Bros. will estab lish sawmill: cost several thousand dollars

Tenn., Cheatham.-Ayer & Lord, Chicag Ill., purchased Dodge tract, containing 912 of timber land, for \$32,102; will estab lish mills and cut.

Tenn., Dyersburg.-North Vernon Lun Tenn., Dyersurg.—North Vernon Lunoz. Co., North Vernon, Ind., has purchased plant recently noted, and will erect additional band-saw mill; will manufacture rough lum ber: 15,000 feet daily capacity; company will engineer construction; cost of plant \$15,000.

Tenn., Unaka Springs. — Unaka Spring Lumber Co., J. J. Hager, president, Bristol Tenn., will develop timber lands near Unaka Springs; operations in charge of E. M.

Tex., Galveston.—Waples Lumber Co. or canized with \$50,000 capital stock by C. I. Vaples, Fort Worth, Tex.; will take over

D. M. Wilson Company and erect plant to stock by George Flourney, George W. Moore, replace present structures.

G. A. Livermoore and others.

Tex., Hartburg.-Barber Lumber Co. reported incorporated with \$10,000 ently stock) will continue established R. S. Barber, president; A. C. Bar ce-president and manager; T. T. Bar olant; R. S. er, vice-pres secretary-treasurer. (See "Machinery Wanted.")

Building Co. incorporated with \$250,000 capital stock by W. T. Carter, Thomas H. Ball and others; will continue established businas II. Ball

Va., Charlotte and Campbell Counties, Lumber Co., Lynchburg, Va., ed 1000 acres of timber land for \$20,0

Va., Covington.-Chesapeake Lumber Co. Charleston, W. Va., purchased timber rights on more than 1000 acres of land, will install awmills and develop; extruction of tramroad.

W. Va., Bluefield,-American Lumber Co incorporated with \$100,000 capital stock by J. Lee Harne, H. C. Donaldson, A. D. Ham-

W. Va., Charleston .- A. C. Tuxbury Land & w. va., Charleston.—A. C. Tuxbury Land & Timber Co. incorporated with \$300,600 capita stock; A. C. Tuxbury, president; F. G. Da vies, vice-president; J. J. Fleetwood, secretary; Charles Hill, treasurer.

W. Va., St. Albans.-Sattes-Weimer Lumbe o. incorporated with \$25,000 capital stock by A. Zerkle, James Weimer, George Weimer and others

METAL-WORKING PLANTS

La., New Orleans-Metal Turpentine Co Operators' Turpentine Cup Co., North Scott and St. Louis Sts., incorporated with \$10,000 capital stock by Edwin W. Rodd, Leak P. Landis, Harold M. Henshaw and Clement P.

Tex., Plainview-Wire Fence.-Hale County Tence Co. incorporated with \$14,000 capi ck by W. F. Brooks, J. H. Leach and J. N. Jordan.

Va., Staunton—Metal Shingles.—R. N. Mc-Crory, Greenville, S. C., will establish plant for manufacturing metal shingles; leased Gibson Bldg., on Middlebrook Ave.

MINING

Ala., Bessemer-Iron.-Slo s-Sheffield Ste & Iron Co., Birmingham, Ala., will install electric system at Bessemer mines for light ing, hauling, pumping, etc.

Ala., Birmingham-Iron.-Alabama Fuel & Tron Co., Overton Fullton, secretary, proposes to Increase, capital stock from \$2,500,000 to \$3,500,000 and to purchase Russellville (Ala.) Iron Ore & Metal Co.

Ala., Russellville—Iron.—Russellville Iron Ore & Metal Co. increased capital stock from \$110,000 to \$270,000.

Ala., Mulga-Iron and Coal.-Birminghan Coal & Iron Co. will install new machinery and replace plant recently damaged by explosion; estimated loss, \$100,000; James Ben nanager, Birmi

Ark., Dodd City-Lead and Zinc.-Pilot Ark., Dodd City-Lead and Zine, Prior Rock Lead & Zinc Co., D. H. Dodd, superin-tendent, will establish concentrating plant recently noted (under Harrison, Ark.), will develop several hundred acres; daily capacltv. 2 to 10 tons: date of opening machiner

Ga., Elberton-Mica.-Dozier Mining Co. recently noted to contemplate development f Chapman mica mine) will develop 100 cres; officers not yet elected; L. A. Dozler, nanager. (See "Machinery Wanted.")

La., New Orleans—Sand and Gravel.—Fe ciana Sand & Gravel Co. incorporated with liciana Sand & Gravel Co. incorporated with \$50,000 capital stock; J. H. Wiley, president; Joseph A. Wisong, secretary

Miss., Hattiesburg - Gravel.-Leaf Riv Gravel Co. incorporated with \$50,000 capital stock by E. J. Mitchell, T. W. Longre, S. E. and others

Mo., Joplin-Lead and Zinc.-Omaha-Peters burg Mining Co. contemplates, it is reported, construction of concentrating plant.

Mo., Joplin-Lead and Zinc.-Wiser Minius & Development Co. incorporated with \$50,000 capital stock by Frank W. Wiser, A. B. Wiser, W. H. Frickleton and others.

Mo., St. Louis—Lead and Zinc.—Jesse French Mining Co. incorporated with \$50,000 capital stock by Jesse French, Pinckney French and J. A. Webb.

Mo., Webb City-Lead and Zinc. - Little Mining Co. incorporated with \$100,000 capital stock by T. Frank Lennan, Temple Chap-man, George W. Ball and others.

Mo., Webb City-Lead and Zinc.-Flourney Mining Co. incorporated with \$4000 capital

Tenn., Bristol-Lead.-Fred Dulaney is in ested in development of lead deposits.

Tenn., Ducktown-Copper.-Axley Copper Co. will be reorganized by W. W. Axley of Chattanooga, Tenn.; new title will be Geor-gia-Carolina Copper Co., with capital stock of \$3,000,000.

on City - Sand. Sand Co., J. H. Smathing, president, will develop about 160 acres of white sand deposits

MISCELLANEOUS CONSTRUCTION WORK

Ala., Mobile.-Coaling Station, Docks, etc. Dauphin Island Railway & Harbor Co. in corporated to dredge 30-foot channel fron Mobile Bay to Dauphin Bay and build docks wharves and other coaling facilities on Dau-phin Island at Mouth of Mobile Bay, con struct railway to Mobile, etc.; president, Geo. T. Bishop, Cleveland, O.; vice-president, F. F. Graves, Chicago; secretary, J. M. Dew-berry, Birmingham; latter telegraphs Manufacturers' Record that expenditure of \$900, 000 Is contemplated; company's principal at Birminghan

Ala., Mobile.-New Orleans, Mobile & Chi cago Raifroad, W. F. Owen, general mana-ger, contemplates improvement of terminals on Choctaw Point, including additional piers, warehouses and trackage, at cost of \$200,000 (See "Railway Shops, Terminals, etc.")

La., New Orleans-Steel Sheds,-Port C missioners, Hugh McCloskey, president, Hi-bernia Bank & Trust Bidg., invite bids until May 20 for erection of steel sheds; plans and specifications by J. F. Coleman & Co., engi-neers. New Orleans: board has contracted ocers, New Orleans; board has contractor extension of Valence St. lumber what 600x100 feet. (See "Machinery Wanted.")

La., New Orleans—Steel Sheds.—Port Com-cissioners adopted resolution instructing T M. McChesney, assistant secretary, to invite bids for construction of steel sheds between Jackson and Louisiana Ave., covering abo 3:00 feet, as follows: Harmony St. she 1300x100 feet; 6th St. shed, 600x188 fee Soraparu St. shed, 1000x144 feet; 3d St. she Jacks 600x188 feet; board has also contracted for extension of Valence St. lumber wharf 800x 100 feet; J. F. Coleman, engineer, of New 100 feet; J. F. Coleman, engineer, of N Orleans, has prepared and submitted by prints.

Memphis-Revetment. - Mississip Commission will construct revetment at Hopefield Bend; estimated cost, bank \$50,000.

Va., Roanoke-Tunnel.-Norfolk & Wes Railroad awarded contract to Vaughau Con struction Co. of Roanoke to construct under-ground crossing under tracks at Lynchburg Ave N. E.; cost about \$35,900. (Recently

MISCELLANEOUS ENTERPRISES

Fla., Jacksonville-Laundry.-Eagle Laun Co. will erect plant; dry Co. will erect plant; three storic brick; 70x82 feet; buff-colored brick; 34 w on each floor : six skylights : first flo ncrete and contain four co ment washers, each weighing 10,000 pounds two flat-work ironers and two extractors second floor equipped with two press ma chines for ironing all except flat work.

Fla., Jacksonville-Steam Laundry. - New York Steam Laundry will erect plant; rein forced concrete; 96x105 feet; two stories and basement; pressed-brick exterior; frepr will install four flatirons with daily caps of 100,000 pieces of linen; private arts well: will install apparatus (to cost \$5000 for extracting lime, sulphur and other ingre dients from water; also electric plant to erate machinery.

Fla., Jacksonville-Laundry.-E. S. Pain aundry Co., 23-25 East Adams St., will erec Laundry Co., 23-25 East Adams St., will erect additional story; purchased and will install additional machinery

Fin., Jacksonville—Garage.—John L. Dog gett will erect garage; two stories; founda-tion to carry five stories; reinforced con

Ga., Atlanta-Cattle Raising.-Georgia Cat tle Co. organized with \$100,000 capital stoc Leon P. Sawtell, general manager; purchas 1000 acres of land and has option on 200 additional acres; will breed cattle, mules, hogs, sheep, goats and poultry; cultivate grain, hay and grasses for feeding, and use cottonseed meal. (Recently mentioned.)

Ga., Cordele—Garage.—I. M. Powell will erect garage; brick; 62x112 feet; two stories; concrete and cement floors; cost \$10,000; plans and construction by Little & Phillips,

open bids June 1 for erection of steam laun-dry recently noted; frame; metal roof; cost of building and machinery, \$3000.

Ga., Montezuma — Stone Shop. — Garnitee Stone Co. will erect shop.

Ga., Savannah - Dyeing and Cleaning. Tocque Dye Works incorporated with \$25,000 capital stock by Edwin R. Tocque of Sayannah and B. Faulconer of Brooklyn, N. Y.

Ky., Georgetown-Redrying Plant,-Burley Tobacco Society purchased property of Blu Grass Cordage Co. and will establish redry

Ky., Lexington-Garage. - Phoenix Motor 'ar Co. will erect garage and machine shop; tal co. win ever garage and machine snop; Is having plans prepared by Coombs Lumber Co., Lexington; 22½x120 feet; concrete floors; fireproof construction; plate-glass front; concrete and brick foundation; superstructure pressed brick.

Ky., Louisville-Engineering.-Advance En-dineering Co. Incorporated with \$10,000 capttal stock by Horace R. Pierce, C. A. McQuay and B. N. McGraw.

La., New Orleans-Coal, Wood and Feed.-Crescent Wood & Coal Co., 226 Hennen Bidg., incorporated with \$10,000 capital stock by Howell Carter, Jr., F. H. Lambert and D. T.

La., New Orleans-Poultry Farm.-Mohawk Poultry Farm, 305 Barrone St., Incorporated with \$5000 capital stock by Henry F. Grahame, J. G. Campbell, W. Percy Nurse and

Md., Baltimore-Laundry.-Thomas C. Mc-Innes, 410 Ensor St., has plans by Henry Rippel, Jr., 1-7 Clay St., Baltimore, for laundry at 40-416 Ensor St.; Sarchiote, for Rada-feet; semi-fireproof; cost \$4600; contract awarded to Rippel & Fisher, 800 North Dun-can Al., Baltimore; machinery contracted.

Md., Baltimore—Garage.—German Land mprovement Co., 202-205 Law Bldg., has dans by Jacob F. Gerwig, 210 East Lexingon St., Baltimore, for garage in rear of 2206 Linden Ave. : one story : concrete : slag roof : eat : awarded contract to H. M. Ren

Md., Baltimore.—Amusements.—American Aero Exhibition Co. (chartered recently) plans organization with \$200,000 capital stock; contemplates building mile race track, club-house, hotel, repair shop for aeroplanes, etc.; incerporators, Chas. N. Joyce, 363 Cai-vert Bldg.; Frederick L. Fox of Washington, D. C.; Robt, E. Routh of New York and others

Md., Frederick-Publishing.-Post Publish-Ing Co. organized with \$25,000 capital stock by James H. Gambrill, Jr., Charles Wert-heimer, C. Thomas Kemp and others; will publish dally newspaper.

Miss., Como-Cotton.-Como Cotton Co. in-orporated with \$10,000 capital stock by J. B. Wardlay, E. G. Taylor and others.

Mo., Louisiana — Automobiles. — Louisiana Automobile Co. Incorporated with \$10,000 capital stock by C. R. St. John, A. F. Orth-wein and John A. Pearsons.

Mo., St. Louis—Laundry.—Vail Place Laundry Co. incorporated with \$60,000 capital stock by Emil W. Zinser, Otto E. Goebel and Wil-

m O. Heisel.
N. C., Apex-Hardware.-Watkins-Seymo Company incorporated with \$15,000 capital stock by Samuel Watkins, Samuel Watkins, Jr., A. T. Seymour and Å. C. Zollicoffer, all of Henderson N. C. Jr., A. T. Seymour of Henderson, N. C.

Okla Oklahoma City-Printing -Warden Oklain Oklainia City-Frinting.-Warden-Enbright Printing Co. changed name to Warden Printing Co. and increased capital stock from \$15,000 to \$25,000.

Okla., Oklahoma City-Contracting.-Fred-erickson-Constant Building Co. incorporated with \$75,000 capital stock by J. L. Constant, George Frederickson and J. G. Jenkins.

Okla., Tulsa-Garage.-Holman-Snyder Mo-or Car Sales Co. will erect garage; 70x75 feet : brick Okla., Walters - Industrial. - Walters In-

dustrial Co. incorporated with \$100,000 capital tock by J. E. McQueen, S. D. Wolfe and H.

S. C., Greenville — Builders' Supplies. Southern Builders' Supply Co. incorporat by F. H. Edwards, J. P. Callahan and J. Moran.

S. C., Sumter-Automobile Supplies ter Automobile Supply Co. Incorporated with \$3000 capital stock; E. W. Moise, president and treasurer; T. C. Reed, secretary.

Spartanburg - Publishing. - Journal Publishing Co. incorporated with \$50,000 capital stock by Charles H. Henry, Horace L. Bomar, Arch B. Calvert and others; acquires Spartanburg Journal.

Tenn.. Memphis - Amusement.-Innovation Ga., Millen-Laundry. - Enterprise Steam Laundry, John M. Edenfield, proprietor, will arty, W. H. Carroll, Jr., and others. Tex., Amarillo-Garage.-C. L. Green will erect garage; one story; brick.

Tex., Merkel — Hardware. — Anchor Hardware Co. incorporated with \$15,000 capital stock by H. L. Propst, R. L. Bland and A. C. Eose.

Tex., Quanah-Garage.-F. D. Hendrix will erect garage and office building.

Va., Norfolk — Advertising.—O'Keefe Sigr Co. incorporated with \$5000 capital stock W. L. O'Keefe, president; J. J. O'Keefe, vice president; J. G. Thornbury, secretary-treas urer.

Va., Richmond-Motor Cars.—Capitol Motor Co. incorporated with \$15,000 capital stock; S. B. Brady, president; A. C. Harman, vice-president; James A. Donati, secretary-treasurer.

Va., Norfolk—Automobiles.—Seaboard Auto & Storage Co. incorporated with \$20,000 cap! tal stock; R. L. Reams, president; C. R Orrell, vice-president; E. G. Orrell, secretary-treasurer.

Va., Richmond—Laundry.—Capital City Laundry incorporated with \$10,000 capital stock; G. W. Smethie, president; W. E. Willjams, vice-president; C. W. Francis, secretary-treasurer.

W. Va., Bellfonte—Transportation.—Belifonte Transportation Co. incorporated with \$5000 capital stock by J. Coleman Alderson, Ben D. Keller, J. H. Miller and others.

W. Va., Follansbee-Lumber, Plaster, etc.-Johnson-Carter Co. incorporated with \$10,000 capital stock by Frank L. Johnson, Beulah J. Johnson, W. L. Carter and others.

W. Va., Martinsburg—Stone Crusher.—National Limestone Co., R. L. Ahles, vice-president, Williamsport, Pa., will establish plant for crushing limestone.

W. Va., Morgantown—Real Estate, Coal Lands, etc.—West Virginia Tri-Products Coincorporated with \$500,000 capital stock by Richard S. Tobin, New York; John T. Mc-Graw, Grafton, W. Va.; Howard L. Swisher and others of Morgantown; Mr. Swisher to be president; will deal in timber, coal, oil and gas properties, handle undeveloped and operating properties, royalties, production and various investment lines.

W. Va., Parkersburg—Electrical Supplies.— Electrical Supply Co. incorporated with \$5000 capital stock by T. A. Bennington, N. C. Burwell, E. P. Chancellor and others.

MISCELLANEOUS MANUFACTUR-ING PLANTS

Ala., Anniston—Parcel Elevators.—Company is being organized with \$200,000 capital stock by S. L. Crook, T. E. Kilby, M. B. Wellborn and others to manufacture patented parcel elevator invented by J. R. Jones of Rome, Ga.

Ala., Birmingham — Medicine. — National Remedies Co. incorporated with \$7000 capital stock; J. B. Oates, president; George M. Webb, secretary-treasurer.

Ala., Birmingham—Automatic Street Car Switch. — American Automatic Railway Switch Co., 1242 Brown-Marx Bidg., incorporated with \$500,000 capital stock; G. A. Neal, president; J. T. Yeatman, vice-president; E. O. Hood, secretary-treasurer; awarded contract to E. L. Penruddocke, Birmingham, for erection of proposed plant for manufacturing patented automatic switch (invented by Matthew 8. Farmer) for throwing streetcar switches by means of lever operated by motorman's foot; cost of plant and equipment, \$30,000.

Ark., Marianna—Drugs.—Luers-Govan Drug Co., E. P. Govan, president, awarded contract to Stafford & Reed, Marianna, for erection of two-story building, 22x70 feet; cost \$5000.

Ark., Nashville-Mattresses. - W. E. Can non is organizing company to establish mat tress factory.

Ark., Newport — Buttons. — Harvey Chalmers & Sons, Amsterdam, N. Y., will establish button factory.

Ala., Sheffield—Buttons.—H. F. Boyer and W. F. Throckmorton are promoting establishment of button factory.

Ark., Fort Smith - Furniture, etc. - Fort Smith Couch & Bedding Co. will erect \$10,000 building; construction by day's work, super-intended by P. Miller; Ed Ballman, president; Emil Ballman, secretary, treasurer and manager. (Company incorrectly named in recent notice under "Woodworking Plants." See "Machinery Wanted.")

D. C., Washington—Tollet Preparations.— Bostwick Company, 607 15th St., incorporated with \$50,000 capital stock; E. B. Belding, president; W. T. Belding, treasurer and manager; V. B. Belding, secretary; manufacturing chemists, exclusive tollet preparations; occupy two floors of building; second floor, offices and filling-rooms; laboratory and stockrooms, third floor.

Fla., Jacksonville—Railway Nut Lock.—Company organized with \$100,000 capital stock; Oliver P. Burroughs, president; John Ball, vice-president; J. H. Burroughs, secretary; will manufacture patented railway nut lock invented by O. B. Burroughs.

Fin., Jacksonville—Medicine.—Sloat Bros. Company, recently reported incorporate with \$100,000 capital stock, will manufacture bitters; G. M. Sloat, president; Frank Sloat, vice-president; W. G. Simpson, secretary-treasurer. (Noted under "Miscellaneous Enterprises.")

Fla., Tampa—Artificial Stone.—Bert Martindale, Seabreeze, Fla., contemplates establishment of plant for manufacturing artificial stone from cement and pearl grit; will erect bungalow for demonstration.

Ga., Atlanta — Manufacturing. — James R. Smith will erect manufacturing plant.

Ga., Savannah—Overalls.—M. & S. Alexan der purchased trousers and overall factory at 505 Jones St.; will erect building and in crease capacity from 50 to 100 machines; also contemplate establishment of branch factory at Baltimore, Md.

Ky., Louisville — Paper. — Paper Makers' Co. Incorporated with \$5000 capital stock by A. C. Schuff, Neville Bullitt and W. E. Goepper.

Ky., Louisville—Bakery.—Harry B. Shea will erect bakery; cost \$7000,

Ky., Louisville — Plastic Stone. — United States Kellastone Co., Terre Haute, Ind., will establish plant for manufacturing plastic stone invented by E. E. Kallie of Terre Haute; A. J. Worsham will be in charge of plant.

La., Bogalusa—Bottling.—Bogalusa Coca-Cola Bottling Co. incorporated with \$6000 capital stock; A. J. Crowe, president; J. L. Mills, vice-president; T. H. Mills, secretarytreasurer.

La., New Orleans—Ice Cream.—Fuerst & Kramer Company, Ltd., will establish plant to manufacture lee-cream, candy, bonbons, cakes, etc.; plans are being prepared by Kenan & Weis, 718 Hibernia Bidg., New Orleans, for 60x150-foot building; mill construction; will install refrigerating plant, steam boilers and tables, candy boilers, range, elevators, electric motor, etc. Address architects.

La., New Orleans—Oil Refinery.—Indian Refining Co. of Cincinnati, O., purchased Record Oil Refining Co. and plant; will continue under latter title; cease operating refinery at Chalmette and use that location for shipping, making plant now used for refining serve for export storage; will build 300-foot wharf at Chalmette to facilitate loading tank steamers; reported as to expend several hundred thousand dollars for improvements; Indian company operates various oil properties; has refineries in Kentucky and other States, distributing plants in various cities, etc.; will ship (through New Orleans) gasoline, naphtha, kerosene, machinery oils, greases, etc.; local manager, Donald Slingluff.

Md., Baltimore — Drugs, etc. — Celery Rye Co. incorporated with \$100,000 capital stock by James F. O'Toole, 1321 North Calvert St.; Victor E. Sharron and Frederick Becker.

Md., Baltimore — Overalls, etc.—M. & S. Alexander, Savannah, Ga., contemplate establishment of branch overall factory. (See Ga., Savannah.)

Md., Baltimore—Paper.—Paper Mills Co., 606-608 East Lombard St., awarded contract to R. B. Mason, Vansant Bidg., 210 East Leyington St., Baltimore, for erection of factory building at Stockholm and Wicomico Sts.; two stories; 139x160 feet; slag roof; steam heat; electric lighting; electric elevator; cost \$65,000; plans by Jacob F. Gerwig, 210 East Lexington St., Baltimore.

Md., Hagerstown — Condensed Milk. — Dry Milk Co., New York, is negotiating with Harvey O. Spickler, Hagerstown, for estallishment of condensed-milk plant, to use wilk and cream of 4000 cows; Mr. Spickler will erect buildings, including refrigeration plant, and be manager of plant.

Md., Baltimore—Artificial Flowers.—Snellenberg Company, 101-103 Hanover St., is having plans prepared by McLaughlin Bross, 100 East Lexington St., Baltimore, for artificial flower plant at Alsquith and Oliver Sts.; mill construction; 80x176 feet.

Md., Chesapeake City — Baskets.—Chesapeake City Basket Co. will rebuild basket plant reported burned; loss \$10,000.

Miss., Gulfport-Ice Cream.-John Ladas, New Orleans, La., will establish ice-cream plant at 1616 Twenty-fifth Ave.

Mo., Kansas City-Washers.-Adams Washer Co. incorporated with \$20,000 capital stock

by M. O. Adams, Mrs. Adams and F. R.

Mo., St. Louis — Blade Sharpener.—Twinplex Manufacturing Co., 304 Frisco Bldg. (recently reported incorporated with \$50,000 capital stock), contemplates manufacture of safety-razor blade sharpener; also other patented articles; sales agent only at present; Thomas M. Ambler, president and general manager; H. S. Gardner, vice-president; Willis H. Ambler, secretary-treasurer.

Mo., St. Louis-Buttons.—St. Louis Button Co. incorporated with \$50,000 capital stock by William C. Ayer, J. Ayer and Albert J. Farnsworth.

Mo., 8t. Louis—Paints, etc.—Durlacque Manufacturing Co., 2822 Olive 8t. (recently reported incorporated with \$7500 capital stock) will operate paint and varnish plant; Alfred R. Picker, president and manager; Fred C. Picker, vice-president; Erick Picker, secretary - treasurer. (See "Machinery Wanted.")

Mo., St. Louis-Hats.-Stern & Berns Hat Co. incorporated with \$100,000 capital stock by Arthur Jacobson, Max Stern, Adolph Berns and others.

Mo., St. Louis—Bakery.—Shertz Lunch & Bakery Co. Incorporated with \$3000 capital stock by John E. Schertz, Joseph L. Schertz and Joseph E, Fisher.

Mo., Valley Park—Fireless Heater.—Wilson Fireless Heater Co. incorporated with \$50,030 capital stock by James Wilson, Stephen H. Long and James B. Wilson.

N. C., Rocky Mount-Bottling,—Coca-Cola Bottling Co. incorporated with \$5000 capital stock by C. S. Hutaff, Jessie C. Hutaff and Tablitha Hutaff.

N. C., Wadesboro-Suits, etc.-Anson Sul & Skirt Co. will increase capacity of plant.

N. C., Wadesboro-Creamery,-G. W. Huntley and B. G. Covington are interested in establishment of creamery.

Oklu., Oklahoma City — Bakery. — Loose Wiles Biscuit Co. Incorporated with \$5.00 capital stock by J. S. Loose of Kansas City and Edward H. Cooke of Oklahoma City.

Tenn., Memphis—Incinerators.—McCall Incinerator Co. Incorporated with \$50,000 capital stock by James H. McCall, Huntingdon, Tenn.: Frank S. Elgin, S. B. Anderson, B. B. Henning and others; will establish plant for manufacturing incinerators invented by Dr. McCall; is subsidiary to McCall Incinerator Co. of America. (Previously reported incorporated under Nashville, Tenn.; will establish branch plants at Little Rock, Ark.; Jackson, Miss., and Montgomery, Ala.)

Tenn., Memphis - Medicine.—James Home Remedy Co. Incorporated with \$5000 capital stock by E. F. Greer, A. E. Johnson, F. C. Muiler and others.

Tex., Dallas.—Samuel Bingham's Son Manufacturing Co. incorporated with \$8000 capital stock by Millard F. Bingham, S. R. Carl, G. Bingham and others.

Tex., Fort Worth — Automobiles. — II. E. Crowley is organizing company with \$100,000 capital stock to establish automobile factory.

Tex., Ennis-Overalls, etc.-Company organized with \$10,000 capital stock by Earl Fain, C. L. McCulloch, like Jolesch and others; acquired glove, overall and mattress factory of Perry McCulloch Company; will enlarge plant.

Tex., Houston-Bakery. - National Biscuit Co., New York, awarded contract to American Construction Co., Houston, for erection of plant; five stories; Texas brick; terracetta trimmings; capacify four times that of present plant; ovens with capacity of 290 barrels of flour daily; private electric plant; refrigerator and sprinkler systems; reported cost, \$250,000. (Contract recently reported awarded to James Stewart & Co.)

Tex., Mt. Pleasant—Peanuts.—J..W. Greer, proprietor of Greer Candy Factory, will esablish peanut factory.

Tex., Port Arthur—Paper.—John W. Gates has perfected plans, dispatches state, for erection of proposed paper mill to manufacture paper from rice straw; rumors say \$1,000,000 to \$2,000,000 will be invested.

Tex., Snyder-Brooms.-D. P. Strayborn and S. T. Elza are planning to enlarge broom factory.

Tex., Texas City—Refinery.—Texas City Refining Co. increased capital stock from \$214, 700 to \$239,700.

Va., Lynchburg—Chemicals.—Nabuso Chemical Co. incorporated with \$25,000 capital stock; C. E. Busy, president; F. A. Lee, vice-president; R. F. Bopes, secretary-treasurer.

urer.

Va., Roanoke — Cigars. — Barksdale Cigar
Corporation incorporated with \$5000 capital
stock; J. P. Woods, president; A. K. Eakle,
vice-president; Peter Barksdale, secretarytreasurer.

Va., Rosslyn—Chemicals.—Oxygen Treatment & Supply Corporation incorporated with \$5009 capital stock; J. E. Doran, president; M. M. Doran, treasurer, both of Culpeper, Va.; G. P. Hart, secretary, 1342 Riggs St. N. W., Washington, D. C.

Va., Fredericksburg — Bakery, — Brannan Baking Co. (recently noted organized by W. I. Brannan to establish steam bakery) awarded contract to F. P. Stearns, Fredericksburg, for erection of 125x25-foot building; ordinary construction; cost \$8000; will install bakers' machinery and ovens.

Va., Petersburg — Gas Plant. — Petersburg Gas Co. will improve plant and lay several miles of new mains.

W. Va., Franklin-Tannery.-Union Leather Co., New York, will establish tannery.

W. Va., Montgomery.—Fayette Bottling & Ice Co. Incorporated with \$45,000 capital stock by T. J. Pavis, Ben Shore, B. H. Early and others.

RAILWAY SHOPS, TERMINALS, ROUNDHOUSES, ETC.

Aln., Mobile.—New Orleans, Mobile & Chicago Ralirond, W. F. Owen, general manager, contemplates construction of freight and passenger terminals, with all necessary buildings, at cost of about \$250,000, and improvements of its terminals on Choctaw Point, including additional piers, warehouses and trackage, at cost of \$290,000.

Ark., Fort Smith.—8t. Louis, Iron Mountain & Southern Railway, M. L. Byers, chief engineer, St. Louis, Mo., contemplates erection of roundhouse.

Ky., Louisville.—Baltimore & Ohio Southwestern Railroad, C. C. F. Bent, general manager, Cincinnati, O., contemplates improvement of terminal facilities at cost of 5200 000

Okla., Waynoka.—Gulf, Colorado & Santa Fe Railway, F. Merritt, chlef englineer, Galveston, Tex., will, it is reported, erect car shops and 10 additional stalls to roundhouse.

Tex., Dallas.—Dallas Terminal Railway & Union Depot Co., W. C. Connor, president, contemplates constructing yard facilities and roundhouse in South Dallas.

ROAD AND STREET IMPROVE-MENTS

Ala., Birmingham.—City contemplates following street improvements: Paving with asphalt binder macadam Crescent Ave., Lincoln St. and 29th St.; 16th Al., south; balance of 19th Al. with vitrified brick; Huntsville Ave. with asphalt binder macadam; Thirteenth Ave., south, with bituittie; J. R. Copeland, chairman street committee.

Ala., Birmingham.—City awarded contract to Southern Bitulithic Co., Nashville, Tenn., to pave streets in Second and Third wards, amounting to about \$85,000.

Ala., Birmingham.—Board of Revenue of Jefferson county will open bids April 29 for slagging and cherting four miles of Wylam and Elbo road; J. W. Gwin, County Engineer, 103 Courthouse. (See "Machinery Wanted.")

Ala., Greenville.—Butler County Commis sioners are considering issuance of bonds for road construction.

Ala., Montgomery.—City contemplates paving sidewalks on Semmes and South Court Sts. with Schillinger or hexagon tile, together with necessary granite curbing, grading, sanitary sewers and brick walls in connection; also paving North Perry and Coosa Sts. with brick, asphait, bitulithic, Blome granitoid block, mineral rubber or wood block; Gaston Gunter, Mayor.

Fla., Palatka.—Putnam county will construct hard-surfaced road from bridge across 8t. John's River at Palatka to 8t. John's county line, and from point on this road to 8an Matco, Fla., 10 miles; bids to be opened May 7; 8. Worden, secretary trustees for Putnam county board, 722 Water 8t. (See "Machinery Wanted.")

Fla., Pensacola.—City Council is considering ordinance providing for awarding of contract to Southern Paving & Construction Co., Chattanooga, Tenn., for paving two blocks with brick, and to United States Wood Preserving Co., 26 Broadway, New York, for paving three blocks with creosote blocks.

Fla., St. Augustine.—City Council passed ordinance providing for paving of South George St. with shell and considered paving of Cathedral Pl. extension with brick. Address The Mayor.

Ga., Atlanta.—City will open, grade and pave Milledge Ave. from Hill to Connally 8ts.; R. M. Clayton, City Engineer.

Ga., Macon.—Bibb County Commissioners decided to issue about \$500,000 of bonds for

improvements of roads and bridges, erection courthouse and scho

Ga., Macon. - City awarded contract to Lasley & Co., Chattanooga, Tenn., for w block paving; C. C. Anderso (Recently mentioned.) n, City Engine

Ky., Louisville.-Board of Public Work open bids in May for laying about \$12,000 th of vitrified paving in various alleys.

La., Houma.—City awarded contract . F. Garner of Houma to lay concrete s

La., Monroe.—Ouachita county voted tax or imprevement of roads. Address County commissioners.

Md., Baitimore.—City will grade, curb and pave Canton St. with vitrified blocks; Hol-lins St., Philadelphia Rd. and Fayette St. with sheet asphalt, asphalt blocks, bitulithic or vitrified paying blocks; bids to be of May 4; B. T. Fendall, City Engineer. "Machinery Wanted.")

Md., Baltimore.-Bids will be opened May Md., Baltimore.—Bids will be opened May 3 for grading, paving and curbing certain streets in "Cloverdale." Address trustees of estate of Chauncey Brooks (Harry Fahnestock and others), 24 Commerce St. (See "Machinery Wanted.")

Md., Cumberland. - Allegany county will and macadamize grade and macadamize one mile of Corri-gansville Rd., Section No. 1; bids to be open-ed May 4; Clinton Uhl, chairman Road Di-rectors of Allegany County, Mount Savage, Md. (See "Machinery Wanted.")

Md., Denton.-Caroline County Commis are considering construction of road from Denton into Tuckahoe Neck and to Willow Pond, distance of about two miles; we will include construction of bridge of Choptank River at Denton.

Md., Oakland.—State Roads Commission, Union Trust Bidg., Baltimore, Md., awarded contract to Hoblitzell & Price, Meyersdale, Pa., to extend work on Hooppole road, in Garrett county, from present terminal of work on that road to McHenry, distance of seven miles; contract price about \$80,000.

Md., Sharptown. - Caroline Construction Co., Preston, Md., has contract to construct State road from Sharptown to Riverton.

Miss., Houston.-City contemplates opening bids in about 60 days for construction of 328 feet of cement sidewalk five feet wide and 19,500 feet of sidewalk four feet wide; J. M. Reid, Houston, will probably be engineer in charge; J. E. Harrington, Mayor.

Miss., Indianola.—Indianola Dirt Road Con struction Co. incorporated with \$10,000 capi tal stock to contract for construction of 100 miles of road.

Miss., Maben.-City awarded contract to Columbus Gravel & Concrete Co., Colu Miss., for 4800 square feet of paving recently noted; Geo. W. Cooke, Mayor.

Miss., Meridian.—Southern Bitulithic Co., Nashville, Tenn., contractor for bitulithic street paving, is preparing to begin work; first paving is to be laid on 7th St. and Twenty-third Ave.; five-inch concrete foundation and two-inch surface of bitulithic.

Miss., Meridian.-Southern Bitulithic Co.-Nashville, Tenn., will pave with bitulithic Mashville, Tenn., will pave with bitulithic street in Highland Park from entrance at Thirty-seventh Ave. and 16th St. to bridge across creek in center of park, distance of from 300 to 400 yards; will also cover all gravel sidewalks now inside of park with bitulithic; I. Marks, president of Park Com-

Miss., Vicksburg.—City awarded contract at \$2,29,50 to Southern Paving & Construc-tion Co., Chattanooga, Tenn., to pave 36 blocks on Cherry St. with asphalt. (Recently mentioned i

Enid.-City awarded contract Okla., Warner-Quinlan Asphalt Co., Syracuse, N for street paving

Okla., Oklahoma City.-City Council is co oka, okanomi cry.—cry Council is con-sidering paving of eight miles of streets in residence district, to cost about \$400,000; streets include Linwood Bivd., to cost \$260,-000; 28th, 29th and 31st Sts., etc.; W. C. Burke, City Engineer,

Okla., Oklahoma City.-City will graotherwise improve center driveway of Grand Blvd.; bids to be opened May 2; Paul M. Pope, secretary Park Commissioners. (See "Machinery Wanted.")

Tenn., Chattanooga. -City Council passed or issuance of \$100,000 ordinance providing for issuance of \$100,00 of bonds for street paving in Highland Park Address The Mayor.

Tenn., Hickman.—Fulton county will ostruct gravel roads. Address County C

Tenn., Knoxville.—City will pave Tennes se, Minnesota and New York Aves.; Galbraith, Johnson, Bragg and other streets; tions and reduction tank; estimated cost, blds to be opened May 2; C. O. Gentry, chair- \$42,000; E. W. Myers, engineer, Greensboro,

man street committee. (See "Machinery

Tex., Alice.-City voted issuance of \$5000 c nds for street improvements.

Tex., Batesville.-Zavalla county voted \$20, l issue for construction Address County Comm

Tex., Galveston.—City Commissioners opened bids April 28 for constructing 34,082 linear feet of combination concrete curbs and gui-ters in area included in seawall improvenent fill; also for 1024 square yards vitrified Avenue B, between Stirevard; V. E. Austin, comment on Aver oner of streets and public property; A T. Dickey, City Engineer

Tex., Houston. — Harris County Commis stoners awarded following contracts for con struction of 32½ miles of roads to be pro-vided for out of \$500,000 bond issue: Suderlson Co., at \$61,452, for construction tern Air Line Rd., 18 miles; W. D. at \$10,725, La Porte and Seabrook miles; W. S. Hipps, at \$32,960, Main-Rd., 21/2 Street Rd., 8 miles: L. R. Davis, at \$18,720. Westhelmer Rd., 4 miles; blds rejected for improvement of Lynchburg and Crosby Rd.; contractors all of Houston; John B. Ashe, County Auditor. (Recently mentioned.)

Tex., Houston.—W. S. Hipp of Houston is owest bidder at \$59,540 for paving Western Air Line road, 18 miles in length, with shell: Air Line road, is miles in length, with shell; at \$9350 for paving La Porte and Seabrook road, 2½ miles long, with shell, and at \$32,-960 for paving Main St. road, 8 miles long, with gravel and shell; M. O. Otto is lowest bidder at \$16,700 for paving Lynchburg and Crosby road, 3 miles long, with clamshell, nd Texas Grading Co. at \$16,876 for paving Vesthelmer road, 4 miles, with gravel and hell; contractors all of Houston; John B. Ashe, county auditor. (Recently mentioned.)

Tex., Martindale,-Road District No. 2 of well county will vote May 21 on issu of \$25,000 of bonds for road construc Address County Commissioners, Lock tart, Tex.

Tex., Palestine.—City is considering residence streets. Address The Mayor

Va., Lynchburg. — District Road Board awarded contract to J. R. Ford & Co. of Lynchburg to pave hill on Campbell Ave., distance of 600 feet; roadway of avenue is to be covered with rubblestone

Va., Martinsville.-Bids will be opened May 5 for construction of macadam road in Henry county; P. St. J. Wilson, State Hight Commissioner, Richmond, Va. (See ". chinery Wanted.")

Va., Richmond.-City awarded contract for granolithic curbing and guttering on M, N and O Sts. and Oakwood Ave.; Charles E Bolling, City Engineer.

Va., Salem.—Roanoke County Supervisors twarded contract to C. M. Boone, Roanoke to improve Red Hill Rd. from Back reek to Summit.

W. Va., Princeton.—City will receive bids until June 8-for construction of about three miles standard macadam, tar or asphalt mac-adam paving; cost \$70,900; F. R. Van Ant-werp, chief engineer. (See "Machinery Wanted.")

W. Va., Williamson.-City voted issuof bonds for street paving. Address The Mayor

SEWER CONSTRUCTION

Fla., St. Petersburg.-City postponed date of opening bids for construction of sections Nos. 9, 10, 11 and 12 of proposed sewer sys-tem from April 14 until May 5; W. F. Di-vine, City Clerk. (See "Machinery Wanted.")

Ky., Louisville,—E. A. Barker & Son of Louisville are lowest bidders at about \$5000 for construction of Central Ave. sewer, to be 1142 feet long; P. L. Atherton, chairman of erage Commissioners, Equitable Bldg.

Baltimore. - Estate of Brooks (Harry Fahnestock and others), Commerce St., will open bids May 3 for laying sewers and storm-water drains in "Clos and storm-water drains in (See "Machinery Wanted.")

ated \$8000 additional for completion of sewer-age system; J. J. Hayes, Mayor. (Recently mentioned.) Miss., Vicksburg.-City Council appropri

Mo., Columbia.—City awarded contract at \$14,039 to Columbia Paving Co. for sewers 30, 31 and 33, and at \$4261 to C. A. Stewart of Columbia for sewer 28; sewers to be tile d earthenware

N. C., Reidsville.-City awarded contrac to II. M. Garvey and John L. O'Connor, both of Knoxville, Tenn., to construct about 10 miles of vitrified-pipe sewer from 8 to 15 Inches diameter, three sewage pumping sta

N. C.: Francis Womack, Mayor, (Recently

N. C., Reidsville,-City, Francis Wor Mayor, awarded contract to O'Connor & Gar-rey, Knoxville, Tenn., for construction of 16 miles sanitary-sewer system recently de-scribed; vitrified-pipe sewer, three sewage umping stations and reduction tank

N. C., Sanford.—City will construct sewer ystem; bids to be opened May 17; T. L. hisholm, Mayor. (See "Machinery Wanted.")

Okla., Enid.-City awarded contract, it is eported, to Williams & Son of Enid for wer construction.

Okla., Fairfax.-City contemplates vote of 0 for construction of sewerage system water-works; Harry S. Buford, City Clerk.

Madill.-City will award contract May 9 for sewer construction; \$20,000 bond issue recently reported voted; engineer, Southwestern Engineering Co., Oklahoma City, Okla.; J. S. Dillingham, City Cierk. Southwestern Engineering (City, Okla.; J. S. Dillingha (See "Machinery Wanted.")

Okla., Mountain View.-City will c ewer system; bids will be opened May 4 for arnishing sewer pipe, manhole castings. sewer system; bids will be opened a furnishing sewer pipe, manhole siphons, etc.; O'Neil Engineering C neers in charge, Dallas, Tex. (S chinery Wanted.")

Okla., Tulsa.-City will o sewer across Boston Ave., between 15th and 16th Sts., and south of 12th St. and west of Cincinnati Ave., across Block 294, Old Town and Woodlawn Addition; bids to be opened May 1; D. C. Fenstermaker, City Engineer. (See "Machinery Wanted.")

S. C., Williamston.-City contemplates voting on issuance of bonds for construction of sewer system. Address The Mayor.

W. Va., Princeton.-City will receive bids until June 8 for construction of recently mentioned; cost \$30,000; R. Van Antwerp, chief engineer. (See "Ma-chinery Wanted.")

TELEPHONE SYSTEMS

Ark., Scranton.-Scranton Telephone rporated with \$4000 capital stock : R. B. ncorporated with \$4000 capital stock; Chitwood, president; J. D. Baker, vice-lent; C. E. Hayes, secretary-treasurer.

Ky., Rowletts.-Rowletts Telephone smith and others, has elected O. L. Shackle ord president; will construct three miles of the connecting Munfordville, Cammer and by Pearl Hardyville; no machinery needed

Ga., Milledgeville,-Milledgeville Telepho will issue \$9000 worth of bonds for im vements to system.

Ky., Mackville. - Cocanougher Telepi incorporated by Wes Kimberlin, J. M. Coyle, G. W. Russell and others

Ky., Glasgow.—New Home Telephone incorporated with \$40,000 capital stock by R. Gardner, W. F. Pardue, T. P. Dickin and others.

Okla., Hobart.-Pioneer Telephone graph Co., Oklahoma City, Okla., will con struct entire new telephone system, from switchboard to cables; will install central energy flashlight system.

Stillwater. - Pioneer Telegraph Co., Oklahoma City, Okla., will expend \$40,000 for improvements to system: m battery system, new rect building to replace esent structure.

Okla., Woodward.-Ec incorporated by Will White, Samuel Mitchell and Charles O, Baker.

S. C., Darlington.—Dovesville Telephone Co., P. C. Whitlock, president, recently re-ported incorporated with \$7000 capital stock, vill construct 25 miles telephone line; ma hinery purchased.

Tenn., Cookeville.-Cookeville Home Tele phone Co. incorporated with \$5000 capital stock by V. E. Bockman, J. T. Shirley, W. C. Maxwell and others.

Tex., Higgins.—Home Telephone Co. inc porated with \$2000 capital stock by Flem Carmichael, Martin L. Sebits, Moses Hays and others.

Tex., Mexia.-Mexia Teleph ed contract for erection of \$20,000 exchange building

Front Royal. - Independent Mutu Va., Front Royal.—Independent Mutual Telephone Co. Incorporated with \$5000 capital stock; S. C. Waller, president; Lovell Hoffman, vice-president; Wade Hunt, secretary-treasurer; will construct about 15 miles of line connecting Strasburg, Middletown, Front Royal and Winchester; Lovell Hoffman, and proper in charge Waterliek Va. er in charge, Waterlick, Va.

TEXTILE MILLS

Ga., Columbus - Cotton Cloth. - Meritas Mills incorporated with \$300,000 capital stock by Alvin Hunsicker of Standard Cloth Co., York, and associates; purchased 20-acr site for mill to produce cloth for shipment Northern mills manufacturing olicioth (Mr. Hunsicker and associates recently

Ga., West Point-Jacquards-Lang Manufacturing Co. will, it is reported, double capital and capacity; now capitalized at \$100,000 and has 3000 ring spindles, 70 looms, dyeing and finishing equipment, etc.

C., Cameron-Hosiery.-Regal Hos Mills Co. will erect building addition and add 15 knitters; improvement (Mentioned last month.) improvements to cost \$3000

N. C., Wadesboro-Cotton Cloth.-Wades Cotton Mills Co. will, it is ru additional building and install; estimated cost, \$30,000; now has lees. (Previously mentioned.)

N. C., Worth-Cotton Yarns.-Harden Man facturing Co. awarded contract for 5000 ad litional spindles and other machinery.

Tenn., Erwin-Cotton Goods.-O. P. Heath Co., Charlotte, N. C., are reported as completing arrangements for erection of proosed cotton mill: electric-power.

Tenn., Knoxville—Knit Underwear.—Appa achian Mills, reported incorporated last month with \$50,000 capital stock, has build ing at McGhee Ave. and Atkin St.; now in-stalling 35 knitters for underwear; M. D. Arnold, president; M. G. Thomas, vice-president-manager; Roy N. Lotspeich, secretary

Va., Berkley - Knit Goods. - Chesapeake Knitting Mills will build addition for finishonstru st \$3000 : ontractor, F. H. Henley of Norfolk, Va.

WATER-WORKS

Ala., Riverside. — Riverside Development o. will expend about \$15,000 to construct Co. will expend about \$15,000 to construct water-works system recently noted; bids will be opened May 26 for construction of reservoir (500 gallons per minute capacity), installation of machinery, including pumps, boilers, concrete or sheet-fron standpipe, etc.; cost of machinery, \$3000; character of buildings not decided. Address H. C. Alford, 10 Empire Bidg., Birmingham, Ala. Machinery Wanted.")

Ark., Fort Smith.-City will extend water works; cost within \$75,000; 6-inch or 24-inch pipe; 50 to 100 hydrants; W. J. Johnston, Mayor. (See "Machinery Wanted.")

Fla., Port Tampa.—City will vote on issurance of \$20,000 of bonds for construction of water-works. Address The Mayor.

Ga., Collegepark.-City employed Solo Norcross Co., Atlanta, Ga., to prepare plans for water-works system; is considering proposition of conveying water from East Point (adjoining town). (City recently noted to vote May 30 on \$65,000 bond issue for water-works, sewer system and electric-light plant.)

Ga., Fairburn.—City is considering construction of water-works and electric-light plant. Address The Mayor.

Ga., Fort Oglethorpe.-Bids will be o May 9 for construction of water-distributing system; George Vidmer, Captain 11th Cay nstruction Quartermaster. (See "Manery Wanted.")

Miss., Meridian.—City will construct 8500 feet of 24-inch reinforced-concrete conduit; bids to be opened May 3; William F. Wilcox, civil engineer, general manager of Water Commission. (Date postponed from April 5 as lately stated. See "Machinery Wanted.")

Mo., Savannah.-City contemplates water works improvements; electrically-driven s to be installed, etc. (See "Electric and Power Plants.")

N. C., Franklin.—City voted \$20,000 bond issue for water-works; F. L. Siler, Mayor. (Previously noted.)

Okla., Broken Arrow,—City voted issuance of \$37,000 of bonds for construction of water-works. Address The Mayor.

N. C., East Spencer, P. O. Spencer.—City has engaged J. B. McCrary & Co., Empire Bidg., Atlanta, Ga., to prepare plans and specifications for water-works and to submit me with estimate of cost on May 10; H. C. Bueck, Mayor. (City recently having voted \$25,000 bond issu-works and electric-light plant.) (City recently re

Okla., Fairfax.-City proposes vote of \$50,-000 for construction of water-works and sew-erage system; Harry S. Buford, City Clerk. (Recently noted as for water-works only.) Okla., Fort Sill.—Bids will be opened May

10 for construction of water-distributing sys-tem; Capt. David L. Stone, U. S. A., Con-

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structing Quartermaster. (See "Machinery Wanted."

Okla., Fairview.-City contemplates im provement of water and light system; I. C. Barr Company, Joplin, Mo., submitted fol-lowing estimates; extension of water and light system, \$5000; double present power and extend power-house, \$10,000; water tower, \$4500; additioal pump, motors, etc., \$5000. Address The Mayor.

Okla., Francis.—City voted bond issue for construction of water-works. Address The

Mayor.
Okla., Mountain View.—City will construct water-works; bids will be opened May 4 for cast-fron pipe and specials, hydrants and valves, boilers, heater, etc.; O'Neil Engineering Co., engineers in charge, Dallas, Tex (See "Machinery Wanted.")

Okla., Okeene.—City is arranging for contruction of proposed water-works. Addres struction of The Mayor.

S. C., Florence,—City awarded contract to latthews & Johnson of Florence for exten-ion of water-works, and to American Cast Iron Co., Chattanooga, Tenn., for piping and other material: \$30,000 bond issue authorized; J. N. Johnston o (Recently mentioned.) of Florence is engin

S. C., Easley.—City voted issuance of \$29, 500 of bonds for construction of water and electric-light plant. Address The Mayor.

S. C., Williamston.—City contemplates vot-ing on issuance of bonds for construction of water-works. Address The Mayor.

Tenn., Decherd.-C. E. Murray (recently noted granted franchise) will expend \$5000 for construction of water-works; will instati 15,000 to 40,000-gallon tower, pump and piping. (See "Machinery Wanted.")

(Recently mentioned.) Tex., Alice.-City voted issuance of \$15,000

Tex., Pearsall.-Pearsall Water, Ice & Light Co., recently reported incorporated by George F. Hindes and others, has contracted for 69,000-gallon water tank and 100-foot tower.

Tex., Temple.—Municipal Water Commissioners will soon advertise for bids for construction of water filtration plant to have daily capacity of 200,000 gallons, with clear-water well of 500,000 gallons capacity; will water well of bookoo gamons capacity; with be constructed on unit plan, so that it can be enlarged at will; N. Werenskiold of Dallas, Tex., is consulting engineer of Water Com-mission; J. C. Mitchell and D. M. Seybold are water commissioners

Va., Graham. — Graham Water & Electric Co., V. L. Sexton, president, organized with \$25,900 capital stock; contemplates furtherof water-works improvements recently

No., Orange.—City awarded contract at \$25,073.93 to J. E. McMahone, Norfolk, Va., to construct water-works; capacity 120,000 gallons daily; William Nole, engineer. (Recently mentioned.)

Va., Petersburg.-City will construct servreservoir. Address The Mayor.

Va., Waynesboro.—City will vote May 24 n Issuance of \$8000 of bonds for improve-ment of water-works. Address The Mayor.

W. Va., Fairmont.—Baltimore & Ohio Rail-road, A. M. Kinsman, chief engineer, Balti-more, Md., is having surveys made for con-struction of 32-mile water-pipe line to con-nect water supply of Fairmont with Clarksburg, W. Va.; plan is to construct reservoirs along railway in mountainous sections, so as atong ratiway in mountainous sections, so as to provide sufficient water; one of largest reservoirs will be on top of Allegheny Moun-tains, near Deer Park, construction on which

W. Va., Martinsburg.-Board of Public Af A., Martinsburg.—board of Public A.; fairs awarded contract to H. C. Brooks Com-pany, Clarksburg, W. Va., at \$17,970 for im-provement and extension of water system, except for valves and plugs, and to R. D. except for varies and plugs, and to R. D. Wood & Co., Philadelphia, Pa., to furnish about 50 fire plugs at \$19 each; improvements will include laying of 7% miles of new water mains and replacing three miles of cement pipe; work to begin May 1, to be completed 120 days; Henry H. Hess, City Engineer. Recently mentioned.)

W. Va., Williamson.—City voted issuance of \$17,000 of bonds for improvement of water. f \$47,000 of bonds for improvement of wat orks. Address The Mayor. (Recently me

WOODWORKING PLANTS

Ala., Bay Minette-Shingles.—Bay Minette Shingle Co. will rebuild plant recently reported burned.

Arkadelphia-Heading.-Arkadelphia Milling Co. is reported contemplating establishment of heading factory.

Ark., Heth-Cooperage.—Heth Cooperage Co. will erect cooperate plant to replace burned structure; will install 60-inch drykiln, fan, colls, etc.

Ark., Little Rock-Handles.—Little Rock Handle Factory, L. W. Cherry, president, will erect handle factory; 120x40 feet; one story, with separate boiler and engine room and warehouse 50x40 feet : timber sheds load ing platforms, etc.; daily capacity 100 dozes axe handles. (Recently mentioned.)

Miss., Jackson-Furniture, etc.—Camp Furniture & Manufacturing Co. incorporated with \$25,000 capital stock by G. B. Downing, J. N. Young, N. J. Milstead and others.

Mo., Kansas City - Novelties. - American Novelty Co. Incorporated with \$30,000 capital stock by Adam C. Deats, J. Kirby Smith and J. P. Fontron.

N. C., Henderson-Buggies. will rebuild plant recently burned; will install new machinery.

N. C., Hickory-Woodworking and Bending Ivey & Hice Company (recently reported in corporated with \$50,000 capital stock) succorporated with \$50,000 capital stock) suc-ceeds Ivey & Hice; manufactures picker sticks, wooden hickory, lug strap, heddle frames, loom specialties, bent rims, etc. Geo. F. Ivey, president; A. L. Shuford, treas urer ; J. W. Hice, manager,

N. C., Kernersville.-Ring Furniture recently reported as being organized with \$50,000 capital stock by W. S. Linville, S. G. Ring and others) will erect 45x100-foot shop, two-story 45x90-foot furniture room, 28x40-foot kiln, engine and boiler room; construction by company; manufacture kitchen safes and cabinets; install woodworking maand

N. C., Lumberton-Novelties.-Lumberton Novelty Works, recently reported incorp rated, has organized with \$50,000 capit stock; George G. French, president; R. I Humphreys, secretary-treasurer; will ere planing mill, establish novelty factory and orn mill.

N. C., Warrenton-Woodworking.-Prigd Manufacturing Co. incorporated with \$15,500 apital stock by W. H. Prigden, M. P. Bur ell and others

Okla., Tulsa - Furniture, - Davis & Law oral, Tulsa Furniture, Polivis & Law-rence, Tulsa Furniture Factory, W. L. Davis, manager, will install planing-mill machinery costing \$35,000 for equipment of furniture factory recently noted. (See "Machinery factory Wanted.")

Tenn., Stonewall-Boxes.-Lawton Baske & Box Co. incorporated with Gardner Powell, president; J. J. Schurr, vice-president; E. J. Smith, secretary-treasurer.

Ala., Birmingham. — Register Publishing Co.'s plant at 1809 Second Ave.; loss on build-ing, owned by S. W. Harville, Opelika, Ala.,

Ark Fort Smith -- Cherokee Cotton Gin nt, owned by H. J. and J. H. Payne o. s plant iss \$12,000

Ark., Little Rock.—Fire at Frank's Laun ry destroyed stable only; will not be re

C., Washington.-William H. France's sidence, 34th St., Mt. Ranier; loss \$5000.

Ga., Atlanta. - Fain & Stamps' grocery suilding at 51-53-55 Broad St.; loss \$40,000. Ga., Tifton.-Tifton Variety Works; los

Ky., Beaver Creek.-William Thornberry's

Ky., Beaver Creek.—William Thornberry's residence; loss \$5000. Ky., Louisville.—E. Hyman's store and sta-ble; R. Rabitz's store; L. Edelstein's store; Louisville Boarding Stables; loss on build-

ings, \$25,000.

La., Lake Charles.—Lake House, owned by Green Hall estate, loss on building, \$6000; Calcasieu parish courthouse, loss \$55,000; Bolton Company's store, loss \$60,000; Hakell estate's three buildings, loss \$3000; Ed Ryan's livery stable, loss \$10,000; J. B. Gray's two buildings, loss \$2500; Catholic Church, loss \$3000; C loss \$30,000; Catholic rectory, loss \$6000; Catholic Girls' School, loss \$15,000; Catholic Catholic Girls' School, loss \$15,000; Catholic Convent, loss \$20,000; Catholic Boys' School and Catholic Knights' Hall, loss \$5000; St. Clair Hotel, owned by D. R. Swift, loss \$15,000; Walker House, owned by Walker estate, loss \$6000; A. J. Davidson's building, loss \$6000; II. C. Drew's two buildings, loss \$6000; J. C. A. ut's building, loss \$6000; Walden Hotel and Business College, loss on building, \$10,000; city hall, loss \$12,500; Fire Station No. 1, loss \$5000; S. A. Kinder & Co.'s store, loss \$6000; Dan M. Goodwin's building, loss \$3000; B. M. Brode's warehouse, loss \$3000; 3000; loss \$6000; Dan M. Goodwin's building, loss \$3000; B. M. Brode's warehouse, loss \$3000; M. Moore's grocery store, loss \$6000; Christian Church and parsonage, loss \$500, and following residences with their losses: C. Bunker, \$9000; D. B. Gorham, \$6000; F. A. Tere, \$5000; D. Goodman, \$2500; W. M. Tuttle, \$6500; Mrs. Mary Walker, \$15,000; G. F. Bolton, \$6000; L. Kaufman, \$3000; H. Daigle, \$10,000; Mrs. Frank Field, \$3000; I. W. Van Scov, \$5000; A. H. Behart, \$3500; J. H. Muse. Scov. \$5000 : A. H. Dehart, \$3500 : J. H. Muse,

\$4500; E. Escabous, \$5000; O. S. Dolby, \$2500; Frank Gunn, \$19,000; L. Kaufman, \$12,000; J. G. Fornett, \$4000; J. M. Gray, \$6000; W. M. Wilson, \$4000; Charles Steeley, \$3500; John Sterer, \$5000; I. N. Mudgett, \$5500; Charles Davidson, \$3200; Charles Herbert, \$2500; R. A. Brown, \$3900; Mrs. T. V. Reynolds, \$2500.

La., Oakdale. - Industrial Lumber Co.'s commissary; loss \$15,000.

Miss., Abbeville.-A. C. Graham's cotton es \$3(00)

Miss., Natchez.-Mrs. C. W. Schleet's resiice : loss \$5000.

Md., Chesapeake City.—Chesapeake Basket o.'s plant: loss \$10,000.

Miss., Vicksburg.-R. C. Wilkerson's build

Carterville. - Alabama Mill (ores wned by Jamot Brown, Carthage, Mo.; loss \$50,000

C., Hendersonville. - Major Barker's

N. C., Lumberton.-T. R. Tolar's sawmill

Okla.. Lawton.-Combs Hotel, owned by

S. C., Anderson,-Building owned by N. B. ullivan and associates; loss \$2500

S. C., Donalds.-Donalds Lumber Co.'s lum yard, owned by F. A. Lawton, Greenville C., and S. W. Seawroght, Dallas, Tex.

S. C., Ravenel.-Thos. Martin's stable, resi barn, etc.; loss \$20,000.

8. C., Spartanburg.—Spartan Inn; estima ed loss, \$50,000.

Tenn., Johnson ence; loss \$6000. n City.-John Oliver's resi

Tenn., Nashville.—Nowlin & Wallace Har Co.'s building at 216 Public Square; loss \$20,000.

Railway's viaduct; loss \$18,000; F. Merritt, chief engineer, Galveston, Tex.

Beaumont. - Myrick Transportation Tex., Brownwood.-W. M. Jericho's bak

loss \$2000; building owned by J.

Ferris.-Globe Pressed Brick Co.'s plant; loss \$30,000 to \$40,000,

Tex., Paducah. — Switzer Lumber Co.'s plant, loss \$12,000; First State Bank, loss \$15,000; Model Dry Goodg Co.'s store, loss \$3000; Milam & Doolen's store, loss \$10,000.

Tex., Waxahachie. — Waxahachie Planing Mill Co.'s plant, loss \$5000; Will Moore's sidence, loss \$5000; O. H. Chapman's resi-ence, loss \$3500; Mrs. T. J. Maledon's resi-ence, loss \$3500.

W. Va., Charles Town.—St. Phillip's Industrial School; loss \$2500.

W. Va., Charleston,—White Star Liquor o,'s plant at 810 Kanawha St.; loss \$35,000.

BUILDING NEWS

BUILDINGS PROPOSED

APARTMENT-HOUSES

Ga., Savannah.-J. H. Lankenau will erec wo-story frame apartment-house

Mo., Kansas City.-Charles E. Surface having plans prepared for apartment-hou three stories; six five-room flats; vitrified orick; cut-stone trimmings; cost \$25,000.

Tenn., Chattanooga. — M. L. Mayes, 62 Cherry St., is having plans prepared by Chas. E. Bearden, Chamberlain Bidg., Chat tanooga, for apartment-bouse and dwelling apartment-house to contain two apartments apartment-house to contain two apartments
five rooms each; dwelling to have three
rooms; each will be two stories; brick; composition roof; tile floor to porches; hardpine interior finish; cabinet mantels; gas
and electric tighting; cost \$6500.

Va., Portsmouth.—Mrs. Hume has plans b J. K. Peebles, Norfolk, Va., for apartment se: bids invited.

ASSOCIATION AND FRATERNAL RUITEDINGS

Ala., Birmingham.—Fraternal Hall Association received bids until April 25 for erection of Fraternal Hall; Harry B. Wheelock, archiect. Steiner Bank Bldg., Birmingham; F Davidson, chairman.

D. C., Washington.-Scottish Rite Mas having plans prepared by John Russel Pope, 527 Fifth Ave., New York, for proposed \$1,000,000 temple.

Ga., Atlanta.—B. P. O. E., Atlanta Lodge, No. 78, John J. Woodside, chairman building committee, will expend \$35,000 to erect lodge

building recently noted; 50x100 feet; three four stories; plans not complete

Mo., Columbia. - Acacia Fraternity has lans by W. C. Davidson, 909 Elm St., Coplains by W. C. Davidson, we fain et., Co-lumbia, for fraternity building; three sto-ries and basement; 40x40 feet; brick; steam beat; electric lighting; cost \$10,000. (Re-cently noted under "Miscellaneous Struc-

Tenn., Chattanooga.—Mountain City Lodge, No. 549, of Masons has plans by Adams A Alsup, Chattanooga, for Masonic Temple; three stories; gray brick and stone front; lodgeroom on third floor, 42x65 feet; cost

Tex., El Paso.-Odd Fellows' Lodge will building; four stories; co

Tex., Quanah.—Odd Fellows' Lodge will rect lodge and store building. ilding.

Va., Colonial Beach.-Masonic Lodge will

BANK AND OFFICE BUILDINGS

Ark., Earle.-C. T. Whitman will erect ank building.

D. C., Washington,-Second National Bank W. V. Cox, president, has begun proposed remodeling of bank building on 7th St. be-ween E and F Sts.; one-story addition with glass roof will be built in rear; banking-room will have marble base and bronzed screen counters, mahogany woodwork, mar ble columns supporting celling, etc.; cost \$60,000 to \$70,000; plans by Appleton P. Clark, Jr., 605 F St. N. W., Washington.

La., Thibodaux. - Citizens' Bank. Roth, president, will erect bank building.

Md., Baltimore. — American Agricultural Chemical Co., Equitable Bidg., is having plans prepared by Owens & Cisco, 1006 Con-tinental Bidg., Baltimore, for office building to be erected at South and Water Sts. (Reently mentioned.)

Md., Salisbury .- W. M. Cooper is having plans prepared by Owens & Sisco, 1605 Con-tinental Bidg., Baltimere, Md., for bank building; three stories; brick and stone; marble trimmings; 77x40 feet.

Mo., Kansas City.—J. O. Patterson and associates are having plans prepared by Kurfiss & Godard of Kansas City for office and
store building; 15 stories, with basement and
sub-basement; steel frame, reinforced with
concrete; blue granite and plate glass for exterior of first live stories. of gray brick, with terra-cotta for silla, cor-nice and trimmings; site has frontage of 48 eet and depth of 113 feet.

Mo., Kansas City.-Missouri Savings Association Bank has not selected architect to prepare plans for recently-noted \$100,000 structure; fireproof building; three stories; 27x115 feet; steam heat; electric lighting; date of opening bids not decided.

N. C., Lewisburg.—8. J. Bartholomew is sterested in erection of brick bank building.

Interested in erection of brick bank building,
S. C., Eastover.—Farmers & Merchants'
Bank, Richard Singleton, president, will
creet bank building.
S. C., McCormick.—Farmers' Bank, J. B.
Hormon, president, has plans by Sayre &
Baldwin, Anderson, S. C., for bank building;
20x50 feet; two stories; ordinary construction; electric lighting; cost \$3000; day labor.
Tenn.—Chattangora and W. W. Nealey.

Tenn., Chattanooga.—Mrs. M. V. Neeley awarded contract to Chickamauga Construc-tion Co., Chattanooga, for foundation for office and store building recently noted; three stories and basement. (See "Miscellueous Structures.")

neous Structures.")

Tex., Childress.—J. H. Cristier will open bids about June or July for erection of building recently mentioned; brick and mill construction; 50x90 feet; for use of Farmers and Mechanics' Bank; also storerooms; cost within \$8000; electric lighting; plans by R. H. Studen, Chillipston, There are the storerooms. H. Stucker, Chillicothe, Tex.

Tex., Eagle Pass.-State Bank & Trust Co. will expend \$5500 to erect building recently entioned; two-story fireproof structure;

Tex., Cleburne.-National Bank of Cleburne selected plans by Lang & Witchell, Dallas, Tex., for bank and office building; five sto-ries; brick, concrete and steel; 52x80 feet; interior finished in marble; electric elevator; stimated cost \$100,000. (Recently men

Tex., Houston.—Union National Bank will have plans prepared by Mauran & Russell, St. Louis, Mo., for 12-story bank building. cently mentioned.) (Re

Va., Branchville,-Citizens' Bank, John W. mith, president, will erect brick bank build-

W. Va., Buckhannon.—Building committee le's Bank, Eugene Brown, secretary, will receive blds until May 5 for erection of

bank building; five stories; 22x100 feet; fireproof; steel and concrete; front and side pressed brick and terra-cotta; will install elevator; building to contain 28 offices; plans by E. J. Woods, Clarksburg, W. Va.; plans and specifications on file at People's Bank. (Recently mentioned.)

CHURCHES

Ala., Bay Minette.—Baptist congregation will erect edifice to cost \$10,000. Address The Pastor, Baptist Church.

Ala., Bay Minette.—Methodist congregation is considering erection of edifice. Address The Pastor, Methodist Church.

Ala., Eufaula.—Bids will be received until May 1 for completion of St. James' Episcopal Church building; complete plans furnished upon application. For particulars apply to D. L. Russell, secretary building committee.

apply to D. L. Russell, secretary building committee.

Ark., Little Rock. — First Presbyterian Church adopted plans by H. J. Harder of Little Rock for Sunday-school building; two stories and basement; 60x80 feet; brick and white tile; auditorium to seat 1200; roof garden; cost \$20,000.

Ky., Bowling Green.—Drakes Creek Baptist congregation will erect stone editice; cost \$25,000. Address The Pastor, Drakes Creek Baptist Church.

Ky., Georgetown. — Baptist congregation will enlarge edifice; cost \$15,000. Address The Pastor, Baptist Church.

Ky., Shelbyville.—Baptist Church, Rev. B. Barley, pastor, will receive bids in few days for erection of proposed edifice; cost \$30,000; plans by R. H. Hunt, James Bidg., Chattanooga, Tenn.

Mo., Carthage.—South Methodist congregation will erect edifice to cost \$40,000 to \$59,00 Address The Pastor, South Methodist Church N. C., Kernersville.—Methodist Episcops

N. C., Kernersville.—Methodist Episcopal Church South will erect edifice. Address Rev. H. C. Bynum of Kernersville Circuit.

N. C., Raleigh.—Church of the Good Shepherd resumed construction work on proposed edifice; \$30,000 available for its completion; total cost about \$70,000. Address The Pastor, Church of the Good Shepherd.

S. C., Alken.—St. Thaddeus Episcopal congregation will crect edifice to cost \$17,000 to \$20,000. Address The Pastor, St. Thaddeus Episcopal Church.

8. C., Anderson. — Christian Church has plans by Sayre & Baidwin, Anderson, for addition to edifice; 40x50 feet; ordinary construction; electric lighting; cost \$4000; day labor; J. T. Black, member of committee.

S. C., Columbia.—First Baptist Church, Rev. A. B. Kennedy, pastor, is having plans prepared by Edwards & Walter, 631 Candler Bidg., Atlanta, Ga., for Sunday-school addition recently noted; seating capacity 500; ordinary construction; heating and lighting not decided; cost within \$20,000.

S. C., Greenwood.—First Baptist congregation will remodel Sunday-school building at cost of \$5000 and erect church building at cost of \$15,000. Address The Pastor, First Baptist Church.

Church.
Tenn., Chattanooga.—Centenary M. E. Church South contemplates erection of edifice to cost \$100,000; John Martin, chairman building committee.

Tenn., Cookeville.—Presbyterian Church, J. T. Price, pastor, will extend date of opening bids until May 1 for erection of edifice previously mentioned; 45x75 feet; ordinary construction; brick; hot-air heat; electric lighting; cost \$5000.

Tenn., Covington.—Christian congregation contemplates creeting edifice. Address The Pastor, Christian Church.

Tenn., Memphis.—Linden Avenue Christian Church, Rev. W. H. Sheffer, pastor, will erect church building and parsonage to cost \$100,000: plans indefinite.

Tenn., Nashville.—Seventh Baptist Church, Rev. J. H. Wright, pastor, contemplates erecting \$15,000 edifice.

Tex., Baird.—Methodist congregation contemplates erecting \$12,000 edifice. Address

The Pastor, Methodist Church.

Tex., Hutto.—Swedlah Methodist congregation contemplates erecting \$5000 edifice. Address The Pastor, Swedlah Methodist Church.

Tex., Houston.—Market Street Mission contemplates erection of chapel. Address The Pastor, Market Street Mission.

Tex., Houston.—McKee Street Methodist congregation purchased site on which to erect edifice. Address The Pastor, McKee Street Methodist Church.

Tex., Quanah. — Third Street Methodist Episcopal Church accepted plans by Hannibal (Mo.) architects for edifice to cost from \$20,000 to \$25,000; Deats Griffith, chairman building committee. Tex., San Antonio.—Laurel Heights Methodist Church will soon begin erection of proposed edifice; brick; stone trimmings; seating capacity 1000; cost \$65,000; plans by Atlee B. Ayres of San Antonio.

Va., Norfolk.—J. W. Carroll, R. F. D. No. 1, is interested in erection of church; 32x50 feet; fireproof construction; stoves; probably electric lighting; cost \$3000; architect not selected.

COURTHOUSES

Ga., Macon,—Bibb County Commissioners decided to issue about \$500,000 of bonds for erection of courthouse, etc. (See "Road and Street Improvements.")

Ky., Shelbyville.—Shelby county will vote in November on issuance of \$75,000 bonds for erection of courthouse. Address County Commissioners.

Okla., Stillwater.—Payne county will vote June 11 on erection of courthouse to cost about \$60,000. Address County Commissioners.

W. Va., Hamlin.—Lincoln county will vote in November on Issuance of \$100,000 of bonds for erection of courthouse to replace burned structure. Address County Commissioners.

DWELLINGS

Ala., Birmingham.-E. M. Robinson will expend \$10,000 for remodeling residence; venecrbrick; two stories; J. W. McClain, architect, 213½ North 20th St., Birmingham, in charge of construction.

Ala., Birmingham.—E. T. Steel will erect residence; two stories; frame; cost \$3500.

Ala., Birmingham.-J. H. Cooper will erect residence; two stories; frame; cost \$4000.

Ala., Birmingham.—G. W. Papot will erect two dwellings; two stories; brick veneer; cost \$5000.

Ark., Prescott.—First Baptist Church will erect parsonage. Address The Pastor, First Partiet Church

D. C., Washington.—Richard T. Mulligan. 1432 M St. N. W., has plans by J. H. de Sibour, 528 Fifth Ave., New York, for residence at 16th and R Sts. N. W.; colonial style; light stone; attic story; heating plant in

D. C., Washington. — Warder estate has plans by F. H. Brooks, 1623 K St. N. W., Washington, for additional story to residence at 15th and K Sts. N. W.

D. C., Washington.—J. Slayton Davidson, 1413 G St. N. W., will erect residence on Keokuk St., Chevy Chase Heights.

Fla., Jacksonville.—T. B. Hamby will erect residence: California bungalow style; chocolate red brick.

Fla., Jacksonville.—H. C. Jones will erect residence: two stories; frame; cost \$4000. Fla., Jacksonville.—Fred W. Hayward has

Fla., Jacksonville.—Fred W. Hayward has plans by Mellen C. Greeley, Jacksonville, for residence; shingle bungalow style.

Fla., Jacksonville.—James H. Bacon of Canada has plans by Mellen C. Greeley, Jacksonville, for Southern colonial style residence.

Fla., Ocala.—Charles H. Lloyd will erect

Fla., Ocala.-Mrs. Otis T. Green contemplates erection of two residences.

Fla., Ocala.-Charles II. Lloyd will erect

residence.
Fla., Sanford.—Fred H. Yaple will erect to

dwellings and California-style bungalow.

Fla., Tampa.—Bert Martindale, Seabreeze,
Fla., will erect artificial-stone bungalow.
(See "Miscellaneous Manufacturing Plan(s.")

Ga., Atlanta.—J. B. Highttown, care of Highttown Hardware Co., will erect 12-room residence; hot-water heat; plans by C. E. Frazier, Atlanta; construction by day labor; cost \$10,000.

Ga., Atlanta.—Albert L. Dunn, Box 657, is having plans prepared by Brown & Everett, Atlanta, for proposed dwelling; 12 rooms; brick veneer; heating and lighting not decided; cest \$15,000. (See "Machinery Wanted.")

Ga., Atlanta.-L. G. Neal will expend \$12,500 to erect dwelling at Druid Hills; brick veneer; hot-water heat; gas and electric lighting; plans by A. V. N. Everett, Atlanta; bids opened April 25. (Previously noted.)

Ga., Atlanta.—Clyde L. King will open bids May 10 for erection of proposed dwelling: brick veneer; steam beat; cost \$17,000; plans by Harry L. Walker. Atlanta.

Ga., Atlanta.—T. C. Erwin will erect dweiling; ferro-concrete, with hollow terra-cotta tile veneer; cost \$10,000 to \$15,000; plans not

Ga., Montezuma. - Carl De Vaughn wiil erect residence.

Ga., Montezuma. — C. II. McKenzie will erect residence.

Ky., Lexington.-M. P. Rehorn will erect brick residence; cost \$3500.

Md., Baltimore.—Forest Park Co., Forest Park, has plans by Herbert C. Aiken, 223 St. Paul St., Baltimore, for residence on Brookline Ave.; two stories and attic; 27x20 feet; cost \$4000. (Recently mentioned.)

Md., Baltimore.—Patapsco Realty Co., care of Henry Bready, 163 Belvidere Ave., will erect 30 dwellings; two stories; brick; cost \$80,000.

Md., Baltimore.—Myers & Wise are having plans prepared by Jacob F. Gerwig, 210 East Lexington St., Baltimore, for 12 dwellings on Brighton St. near Rosedale St.; 15x48 feet; porch fronts; facades of iron-spot brick; cost \$33,600.

Md., Baltimore.—Builders' Mortgage & Security Association, Herman Scherr, president, 30 Jackson Pl., purchased tract at Walbrook bounded by 7th St., Belmont Ave. Bloomingdale Rd. and Presstman St.; will erect two-story dwellings.

Md., Baltimore.—T. J. Luby, 1302 Laurens St., has plans by Jacob F. Gerwig, 210 East Lexington St., Baltimore, for two-story brick and stone dwelling at 22 East Hamilton St.

Md., Baltimore.—William R. Tall, 4014 Penhurst Ave., has plans by J. F. Hardy, Groveland and Eldorado Aves., Baltimore, for dwelling on Roslyn Ave.; two and a half stories; frame; 35x31 feet; cost \$4000.

Md., Baltimore.—Charles E. Hardesty, 736 West Fayette St., will erect two dwellings in rear of 734 West Fayette St.; three stories; brick; 25x28 feet; cost \$1200 each.

Md., Hancock.—A. R. Cohill will open bids at once for erection of dwelling recently reported burned; 41x41 feet; three stories: concrete blocks; steam heat; cost within \$10,000. (See "Machinery Wanted.")

Md., Roland Park, Station L., Baltimore.—
John L. Balley, 408 Woodlawn Rd., Is having
plans prepared by Edward L. Palmer, 112
Elmhurst Rd., Roland Park, for residence;
two and a half storles; frame and stucco;
50x30 feet; slate roof; tiled bathrooms; contractors estimating include John Cowan, 106
West Madison St.; Fidelity Construction Co.,
64 Knickerbocker Bldg., both of Baltimore,
and Roland Park Co., Roland Park; cost
\$11,000.

Mo., St. Louis.-C. J. Koontz will erect residence.

Mo., St. Louis.-J. W. Ferguson, Kansas-City, Mo., will erect residence; cost \$20,000.

N. C., Greensboro.—Grace M. P. Church will erect parsonage. Address The Pastov, Grace M. P. Church.

N. C., Winston-Salem. — Inverness Mills awarded contract to J. F. Ange of Winston Salem for erection of proposed operatives: cottages; 15 one story and 5 two stories; frame; shingle roof; city water and sewer connections; electric lighting.

Okla., Tulsa.—C. P. Alexander will erect residence; two stories; brick; 32x52 feet; cost \$4000.

Okla., Tulsa.—Guy Harper will erect resi dence; one and a half stories; frame; 34x45 feet; cost \$3000.

Okla., Tulsa.—Robert Galbreath will erect residence; two and a half stories; frame cost \$30,900.

cost \$30,000.

S. C., Clarks Hill.—D. W. Sharpton contemplates erection of \$5000 residence. (See "M:chinery Wanted.")

S. C., Chester.—Dr. Henry Davager is having plans prepared by J. S. Starr, Rock Hilt, S. C., for eight-room dwelling.

S. C., Lancaster.-L. C. Lazenby is having plans prepared by J. S. Starr, Rock Hill, S C., for remodeling dwelling; cost \$2000; day

S. C., Mayesville, -T. L. Kahn is having plans prepared by J. H. Johnson, Mayesville for residence.

S. C., Greenville.—Lewis W. Parker, Box 605, will rebuild residence recently reported burned; will employ same architect and use original plans.

S. C., Union.—J. Hay Faut has plaus by Sayre & Baldwin, Anderson, S. C., for dwell ing; seven rooms; ordinary construction; electric lighting; day labor.

Tenn., Chattanooga.—E. F. Moore, \$40 Mar ket St., is having plans prepared by Hunt ington & Sears, James Bidg., Chattanooga for bungalow on Main and Mississippi Aves. North Chattanooga; one and a half stories stucco; shingle roof; concrete floor to base ment; hard-pine interior finish; cabinet mantels; hot-water heat; electric lighting.

Tenn., Chattanooga. – M. L. Mayes, 62 Cherry St., is having plans prepared by Chas E. Bearden, Chamberlain Bldg., Chatta nooga, for dwelling; two storles and base ment; three rooms; brick. (See "Apartment houses.") Tenn., St. Elmo.—R. Averitt, 13 West 8th St., is having plans prepared for two dwellings; one and a half stories; six rooms each; brick; tile roof; concrete walls and floors to basement; six cabinet mantels; heating undecided; electric lighting; cost \$3000; will let general contract.

Tex., Cameron. — Tom Denson will erect residence.

Tex., Cameron.-T. G. Sampson will erect three bungalows.

Tex. Engle Pass.—L. C. De Bona had plans by B. Stanley Brown, Eagle Pass, for residence recently mentioned; two stories; 43x 39 feet; brick; hot-water heat; electric lighting; cost within \$7000; contract to be awarded in May.

Tex., El Paso.—Mrs. Carrie B. Mayfield will erect residence; cost \$6500.

Va., Norfolk.—H. J. Robinson will erect residence; double brick; cost \$8000.

GOVERNMENT AND STATE BUILD-

Ga., Griffin-Postoffice.—Treasury Department, office of Supervising Architect James hnox Taylor, Washington, D. C. Sealed proposals will be received until May 25 for construction, complete (including plumbing, gaspiping, heating apparatus, electric conduits and wiring) of U. S. postoffice, in accordance with drawings and specification, copies of which may be obtained of custodian of site at Griffin or at above office, at discretion of architect.

Md., Sykesville—Hospital.—Springfield Hospital for Insane decided to construct another cettage to accommodate 75 patients at cost of \$25,000, and considered new buildings to be erected out of bond issue for State care of indigent insane; under provision of bit creating bond lasue, about \$170,000 will be expended for structures to provide accommodations for 400 more patients; Dr. J. Clement Clark is superintendent. (Recently mentioned.)

Miss., Jackson — Hospital. — Trustees for proposed State Charity Hospital will make preliminary arrangements necessary for construction of institution; Legislature appropriated \$50,000 on condition that city of Jackson and Hinds county provide \$25,000 additional and site; Edmond F. Noel, Governor.

Va., Fort Myer-Administration.—Bids will be received at office of Capt, Warren W. Whiteside, constructing quartermaster, until May 11 for addition to administration building; certified check for 10 per cent. of bid; plans and specifications furnished on application, accompanied by deposit of \$15.

HOTELS

Ark., Little Rock.—William and Frank Hoffman contemplate erection of two-story hotel and store.

Ark., Fort Smith.—Goldman Hotel Co. (recently reported incorporated by J. C. Wyatt and others) will operate hotel previously erected.

Fin., Jacksonville.—R. S. Hall, Ocala, Fin., purchased site 105x186 feet on which to erect hotel; five or six stories; reinforced concrete; about 150 rooms, majority with bath accommodations; estimated cost, \$100,000.

Ga., Albany.—Albany Hotel Co. is having plans prepared for addition to hotel; four stories; brick; 200 rooms; cost \$125,000.

Ga., Cordele,—O. M. Grady, Macon, Ga., contemplates expending \$15,000 to remodel Suwanee Hotel.

La., New Orleans.—Monteleone Hotel, J. D. Kenny, manager, will build 15-story annex of 500 rooms, costing probably \$1,000,000; understood details will be determined soon.

Mo., Columbia.—8. F. Conley, E. C. Clinkscales and J. M. Batterton are organizing company to erect fireproof hotel costing about \$100,000.

Mo., St. Louis.—W. A. Gill will remodel four-story office building at Broadway and St. Charles St. as hotel; will contain 80 sleeping-rooms; cost \$25,000; Charles C. Nicholls, Jr., of Nicholls-Ritter Realty & Financial Co. is acting for Mr. Gill, and will supervise work.

N. C., Charlotte,—Paul Chatham and J. E. Kavanaugh, both of Winston-Salem, N. C., will erect hotel.

Tenn., Clarksville.—Green & Love purchased Arlington Hotel and will expend \$4000 to \$5000 in improvements, including remodeling interior, additional baths, tile floor, steel ceiling in lobby and office, improvement of plumbing system, etc.

Tenn., Tiptonville.—R. C. Donalson and associates are reported as to build \$10,000

Tex. Amarillo.—John Long will erect ho

tel: two stories: brick: 60x80 feet: plans by e Burnett of Amarill

Tex., Boerne.-Kendall Inn Co. incorpo ted with \$25,000 capital stock by W. C. Kal teyer, James S. Schriving and H. D. Barnitt

Tex., Galveston,-Galveston Hotel Co., L. H. Kempner, president, accepted general pli prepared by Mauran & Russell, St. Loui Mo., for beach hotel; 5 stories; U shape 200 feet long; two wings to extend south ward to beach 100 feet; 250 rooms; reinforced concrete; loggia 20 feet wide is to extend around three inner sides of structure; this will be constructed of glass and screened; estimated cost, \$500,000. (Recently mentioned) tioned.)

Tex., Quanah.-William Cameron is considering erection of four-story hotel.

Tex., San Antonio.—Alfred Sanner, proprie or of Bexar Hotel, will remodel hotel at cost of \$30,000.

Tex., San Benito.-San Benito Hotel h plans for addition to hotel; two stories; 24 guestrooms; estimated cost \$4000.

Tex., Yoakum.—Ross & Shall are hav plans prepared for three-story brick hotel.

Va., Wicomico Church. — Wicomico Hotel
Co. incorporated with \$5000 capital stock;
Edwin Brown, president, Brown's Store,
Va.; J. P. Bland, vice-president, and W. H.
Tignor, secretary, both of Wicomico Church.

MISCELLANEOUS STRUCTURES

Ala., Fort Payne-Store.-J. B. Haralso will erect 100x90-foot store building recent noted; fireproof construction; cost \$4000 architect not selected. struction; cost \$4000

Ark. Fort Smith-Jail.-Sebastian Co. ners are planning to cost \$20,000

D. C., Washington-Store.-Albert A. Bra-ger, Eutaw and Saratoga Sts., Baltimore, Md., is reported as contemplating erection of store building.

Ga., Cordele-Business. — Dekel Bros. willerect business building; three stories; cost \$30,000.

Ga., Cordele—Business.—Pless & William will erect \$25,000 business building.

Ga., Montezuma-Store.-T. R. McKenzi will erect four stores.

Ga., Vidalia-Business.-W. G. Thor

will erect business building; two stories.

Ga., Vidalia—Store.—G. N. Matthews will erect store; brick.

Ky., Louisville—Clubhouse.—St. Boniface Catholic Church is having plans prepared by D. X. Murphy, Louisville, for \$20,000 club house and auditorium.

Ky., Louisville-Clubhouse,-Business Won en's Club is having plans prepared by Gary & Hawes, Louisville, for clubhouse; five sto ries; fireproof; steel with curtain walls of brick : cost \$85,000. (Previously mentioned.)

Md., Baltimore-Temple,-Gallilean Fisher men will expend \$6000 to erect assembly hal recently noted: 42x50 feet; steam heat; gas and electric lighting; plans by John Freund.
Jr., 210 East Lexington St., Baltimore; bids
opened April 25. Address architect.

Miss., Guntown-Business.-W. C. Hinds & on and S. P. Dalrymple will erect business buildings

Miss., Meridian-Business.-W. M. Wagn will erect business building; three stories brick; 25x65 feet; buff-brick front; cost \$25,000.

Miss., Shubuta-Business.-W. H. Pattor will erect brick business building

Miss., Tylertown-Store.-J. W. Ball will erect \$10,000 brick store building; cost \$10,000

Mo., Columbia—Fraternity.—Kappa Sigma Fraternity will open bids about May 5 for erection of fraternity chapter-house recently mentioned; ordinary construction; three stories and basement; 54x39 feet; cost \$10,-600; steam heat; plans by Mr. Seger, Colum-bia. Address Bullding Committee, Kappa Sigma House. (See "Machinery Wanted.")

Mo., Kansas City — Business.—Ridenour-Baker Grocery Co. will erect business build-ing; seven stories; brick; cost \$50,000.

Mo., St. Louis-Laboratories.-Palpao Lai oratories incorporated with \$50,000 capital stock by F. J. Stuart, E. S. Stuart, F. J. nd others

Mo., St. Louis-Mercantile,-Ferdinand H. Manger will erect mercantile building; seven stories; fireproof; cost \$150,000.

N. C., Goldsboro-Hospital.-Goldsboro Hos pital is having plans prepared by Henry E Bonitz, Wilmington, N. C., for proposed hos pital; cost \$16,000.

N. C., Louisburg-Stores.-D. C. and Strickland will erect two brick stores -D. C. and R. II.

N. C., Raleigh-Stable.-W. A. Simpkin and G. C. Farthing will erect stable.

Okla., Enid-Business.-Neva Triplett will siness building; two stories; brick x125 feet; cost \$6000.

Okla., Enid-Business.-L. W. Cotton will ect business building; 25x125 feet; two s; brick; cost \$5000 to \$6000.

Okla., Enid-Business.-Mrs. Bailey is resorted as planning erection of business clock; 25x100 feet; brick; cost \$5000.

Okla., Enid-Business.-J. A. Starkey will rect business building; three stories; brick; rst story 25x125 feet; upper floors 25x45 feet : cost \$8000.

Okla., Lawton — Business. — Rebecca and Estella Lebrecht will receive bids until May for erection of business building; certified heck for 3 per cent, amount of bid; plans cifications on file at Lebrecht's

Okla., Oklahoma City — Chapter-house. — American Woman's League, 402 Empire Bidg. vill erect chapter-house.

Okla., Pawhuska - Business, - Tom Smith

Okla., Nowata—Sanitarium.—Nowata Saniarium Co., recently reported incorporated with \$5000 capital stock by S. E. Moore, Perry. Okla., and others, will erect 40x80-foot snn tarium; brick; hot-air or hot-water heat; cost \$6000. Address Dr. Moore.

Okla., Tulsa - Business.-George will erect business building; three stories brick

8. C. McCormick-Store.-J. B. Horn s. C., McCornick—store.—J. B. Hormon has plans by Snyre & Baldwin, Anderson S. C., for store building; 46x100 feet; two tories; electric lighting; hand-power eleva or; cost \$10,000; Jay labor.

S. C., McCormick.—N. G. Brown & Sons ve plans by Sayre & Baldwin, Anderson, C., for store building; 39x90 feet; two ordinary construction: lighting; hand-power elevator; cost \$6000

Tenn., Chattanooga - Business. - Clothin; rganized with \$75,000 capital stock Charles Miller, president; will expend \$10.00 for improvements to business building.

Tenn., Memphis-Sanatorium.-Charles B. James Sanatorium Co. Incorporated with \$25,000 capital stock by S. Morros, L. B. King, A. M. McConnell and others.

Tenn., Memphis—Commercial.—Lee estate will erect commercial building. Tex., Cameron-Business,-D. Monroe will

rect building; brick.

Tox Quanah-Business.-William Can on, Waco, Tex., will erect business building Tex., Quanah—Store.—I. Simpson content lates erection of store building

Tex., Quanah-Store.-I. G. Hart will o ore building.

San Antonio-Store.-Samuel & S Dalkowitz will erect store building four stories; fireproof.

Va., Fredericksburg-Stable. will erect stable

Va., Lynchburg-Business.-W. O. Taylo roof: cost \$4500.

Lynchburg-Business.-J. Company will erect business building.

Va., Martinsville-Jail.-Henry county ha jail; reinforced concrete and brick; cost \$15, (Recently mentioned.) 100.

Va., Richmond-Business.-Emanuel Gu and A. L. Strause will erect busines brick and stone: 26x110 feet: four

MUNICIPAL BUILDINGS

Ala., Decatur-City Hall, etc.-City voted suance of \$25,000 of bonds for erection of city hall, jail and fire department building Address The Mayor. (Recently mentioned.)

Ga., Atlanta-Engine-house.-Fire Master adopted plans by Morgan & Dillon of At-lanta for Ninth ward engine-house; cost \$12,000; architects will invite bids.

Ga., Atlanta—Comfort Station.—Improvement committee of Park Commission, Gordon N. Hurtel, chairman, selected plans by Harry L. Walker of King & Walker, Atlanta. for public comfort building to be erected in Piedmont Park; one story; cost \$8000. (Recently mentioned.)

Ga., Atlanta — Hospital. — Grady Hospital.
W. B. Summerall, superintendent, will open bids in July for erection of 50x160-foot addi-tion to hospital; fireproof construction; gas and electric lighting; one elevator; du waiters; cost \$90,000; architect not selec (Recently noted.)

La., New Orleans-Engine-house,-City having plans prepared by E. A. Christy e New Orleans for engine-house on Carrollton Ave.: cost \$10,000.

Port Commissioners will have plans and speorleans for stable and toolhouse.

Md., Baltimore-Engine-house,-R. B. Ma son, 324 West Biddle St., Baltimore, is low est bidder at \$24,488 for erection of engine house No. 38 on Baltimore St. near Fremont two stories; 32x103 feet; brick; stone trim-mings; architects, Owens & Sisco, 1605 Continental Bldg., Baltimore. (Recently

N. C., Asheville-City Hall,-City has play by Nashville Bridge Co., Nashville, Ten for steel tower for city hall; octagon frustrum about 39 feet above masonry wor will be covered with slate; steel ladder alongside tower. Address The Mayor.

Tenn., Chattanooga-Police Station.-Board of Public Works will open bids April 30 fo ovements to police station; \$4000 ap

Tenn., Chattanooga. — Board of Public Works will receive proposals until April 3 for remodeling city hall; 48x246 feet; west end to contain offices; will install vauit concrete floor in east end of building; gas and electric lighting; plans by J. C. C. Gar-ner, city hall, Chattanooga.

Tex., Alice-City Hall.-City voted issuance of \$10,000 of bonds for city hall. Address The Mayor. (Recently mentioned.)

RAILWAY STATIONS

Fla., Jucksonville.—Jacksonville Termina Co., J. II. Nelson, manager, will remode union station and increase floor space by union station and increase floor space by not less than 2400 square feet; improvements will include dining-room, new floor, etc., to cost \$10,000; extension of train sheds on east side of station so as to accommodate about 18 trains at one time, to cost \$7000; covering all exposed portions of train platform with umbrella roofing, to cost \$20,000, etc.; total expenditure estimated at \$100,000.

Ga., Stillmore.—Wadley Southern Railway Co., T. T. Hollomon, superintendent, Wad-ley, Ga., will not erect railway station re-cently reported; purchased site for war-house to be erected by W. J. Evans. (88) Warehouses.")

Miss., Jackson.—New Orleans Great North orn Railroad, N. G. Pearsall, general man ager. Bogalusa, La., contemplates erection of freight and passenger depots.

N. C., Statesville.-Southern Railway, Lum, chief engineer, Washington, D. C. has filed plans with Corporation Co for proposed passenger station.

Tenn., Athens.—Louisville & Nashville Railroad, W. H. Courtenay, chief engineer, Louisville, Ky., will, it is reported, erect pas senger and freight depot to cost \$5000.

'enn.. Johnson City.-Southern Railwa W. Laun, chief engineer, Washington, '., will, it is reported, erect passenger and freight depots

SCHOOLS

Ala., Anniston.-City will vote May 23 25,000 bond issue for school improved Address The Mayor.

Ark., De Queen.-City is having plans pared by V. B. Van Dyke, Fort Smith, Ark. ed \$20,000 school.

Ark., Lockesburg.-City will vote on \$10.0 ue to erect high-school building. Ad lress The Mayor

Fla., Miami.-Dade County Commission ropese to erect \$60,000 eand high-school building. bined gramma

Fla., St. Petersburg. - City of suing bonds to erect school. ol. Address The

Fin., Tallahassee,-Leon County Board o Public Instruction will receive bids unt May 3 for erection of high school according to plans prepared by T. F. Lockwood, Colum is, Ga.; certified check for \$1000, payable to J. H. Patterson, chairman; plans and specifications on file at office of E. B. Eppes, superintendent, Tallahassee, or may be had or deposit of certified check for \$25, payable to uperintendent.

Ga., Atlanta, -- Peacock School for Boys vill erect school; brick; two and a half sto ries; cost \$20,000.

Ga., Macon.—Bibb County Commissioners will Issue \$500,000 of bonds for erection of boys' high school, etc. (See "Road and Street Improvements.")

Ga., Springfield.—Board of Education, H. W. McCartney, trustee, will erect brick school building; to have four feet or more excavation; four recitation rooms, hallways, parcel rooms and auditorium; contemplate parcel rooms and auditorium; contemplat-using Ludowici tiling; cost \$10,000; plan-considered; architect selected April 26; Y plans E. Bargeron, che (Recently noted.) hairman building

Ga., Waveross,-G. P. Washington is chale of building committee for proposed in-trial college for negroes; brick; two sto-

., Louisville Ky -School Board will exp Ky., Louisville.—School Board will expe 10,000 to remodel building for school p oses: plans by Mason Maury, Louisville.

Mil., Baltimore.-City is having plans propered by Archer & Allen, Central Saving Bank Bidg., Baltimore, for addition to No. 60 school on Retreat St.; six rooms; cost \$30,-306; Edward D. Preston, Inspector of Build-

Md., Baltimore.-City has had revised plans panels, Battimore, for No. 51 School at Windemere and Carroll Aves.; three stories; fireproof; 164x82 feet; Edward D. Preston, Inspector of Buildings, City Hall. (Recently entioned)

Miss., Corinth. - Joseph Lennon is intersted in establishment of Catholic of Miss., Lambert.—City is arranging t 5000 school. Address The Mayor.

Miss., Jackson.-Jackson Deaf and Dumb Institute, J. R. Dobbins, superintendent, as thorized R. H. Hunt, James Bldg., Chatta ooga, Tenn., to prepare plans for remodeling four-story structure : cost \$30,000.

Miss., Pickens.—City voted \$5000 bond issue o erect school; plan is to petition County Commissioners for \$2500 additional and erectivities to cost \$7500. Address The Mayor.

Miss., Shelby.—Mayor and Board of Alder ion will receive bids until May 10 for erec tion of school; certified check for \$250, payable to J. R. Murnan, Mayor; also separate bids for plumbing and heating; plans and specifications on file at office of R. L. Coker, Town Clerk, Shelby, or of M. M. Alsop, architect, Itta Bena, Miss. (See "Machinery Wented.") Wanted."

Mo., Hannibal.-Board of Education has olans by Malcolm B. Martin, Hannibal, for two school buildings; six rooms each; ordi-nary construction; steam heat; cost \$30,000. Address architect. (\$80,000 bond issue recenty noted.)

N. C., Flats. - Macon County Board of Education, Franklin, N. C., will receive bids until May 2 for erection of school; justified bond for double amount of bid; plans and specifications on file at office of M. D. Bil-

N. C., Rutherfordion.—City will open bids May 15 for erection of recovery 15 for erection of proposed school build-80x89 feet; two stories; six classrooms and auditorium : direct steam heat : electric lighting ; cost \$10,000 ; plans by Sayre & Bald vin. Anderson, S. C.

N. C., Greensboro.-City contemplates issuof \$30,000 of bonds for school improve nents. Address The Mayor.

N. C., Wingate.-Wingate Baptist Schons plans by J. M. McMichael, Charlotte, for school; two stories; steam heat; 81 \$10.000

Okla., Oklahoma City.-City has plans for okial or schools as follows by Layton, smith & Hawk, Majestic Bidg., Oklahoma City: Two-room addition to McKinley School, cost \$7000; four-room addition to Willard School and four-room addition to Jefferson School, cost \$15,000; also has plan by Van Meter & Schmitt, 823 Insurance Bidg, Oklahoma City, for addition to Riversid School, cost \$30,000. (Recently mentioned.)

Shawnee, - Benedictine College of Sacred Heart, Okiahoma, will soon open bids for erection of college recently noted; main building to be 68x296 feet; ordinary and fire-proof construction; cost \$100,000; plans by John A. Quinn, Flateau Bldg., Dallas, Tex Address Mr. Oulnn.

Okla., Stillwater.-State Board of Agricul-Okin., Stillwater.—State Board of Agricul-ture, Guthrie, Okin., will soon award con-tract for crection of proposed \$15,000 animal husbandry building at Stillwater Agricul-tural and Mechanical College,

Okla., Vinita.—J. C. Olson will, it is reported, expend \$15,000 for purchase of ground and erection of military school and business

Okla., Yukon.-Clty voted \$33,000 bond is school improvements. Address Mayor.

Charleston.-James Simons, chairman Public School Commissioners, Memminger School Bidg., Charleston, will receive bids until May 3 for remodeling Bennett School; certified check for \$250, payable to James Simons, chairman; plans and speci-fications on file at office of Todd & Benson, architects. Charleston.

8. C., Clover.—Clover Independent School District voted \$19,000 of bonds to erect school; eight rooms; heating undecided; probably electric lighting; architect not se-

lected. Address Z. M. Nell, chairman Board of Trustees

Tenn., Chattanooga.-University of Chatanooga is contemplating erection of build-ing for law department.

Tenn., Knoxville.-Knox County Industrial School is having plans prepared by L. C waters, Knoxville, for dormitory to replace burned structure; two stories; brick; mil-constructed roof; two-story front porch; cost \$8000. (Previously mentioned.)

Tenn., Knoxville.-Lincoln Memorial Uni versity, W. I. Stooksbury, president, haplans by I. C. Waters, Knoxville, for \$30,00 dormitory; three stories and basement brick; first story rubble masonry; upper sto ries brick and stone trimmings.

Tenn., Lonsdale, R. Sta. Knoxville.—M. M. Gopenhaver, chairman; C. C. Wolback and Y. H. Davis, School Committee, will receive ids until May 2 for erection of school; May 2 and specifications on file at office of Town Recorder.

Tex., Amarillo.-Board of Education, W. S. Roberts, president, will expend \$60,000 to crect high-school building; 148x112 feet; two stories and basement; 22 rooms; semi-fire-proof construction; direct and indirect steam heat; electric lighting; plans by Scott & Pearson, Waco, Tex.; bids opened May 5; will expend \$15,000 to crect ward school; 64x will expend \$15,000 to erect ward school; 543
72 feet; two stories; eight rooms; ordinary
construction; steam heat; electric lighting;
plans by Kaufman & Son, Amarillo; bids
opened May 10. Address E. L. Higginbotham. (Recently noted.)

Tex., Brady.-City will issue bonds to crect ard school in Crothers addition. Address The Mayor.

Tex., Crosby.—Harris County Commissioners, Houston, have plans by F. S. Glover Son, Houston, for school; two stories; brick six rooms and auditorium; cost \$10,000. (Re cently mentioned.)

Tex., Derby.-City will vote May 14 issue for school improvements. dress The Mayor

Tex., Eagle Lake.-City will erect \$22,000

rex., Eagle Lake.—City will erect \$22,000 school. Address The Mayor.

Tex., Eastland.—City voted April 6 on \$20,000 bond issue for erection of brick school building; Henry Van Geem, secretary Board

Tex., Fort Worth,-Orthodox Congregation Tex., Fort Worth.—Orthodox Congregation Ahavath Sholom, Rev. Chas. Blumenthal, pastor, will expend \$25,000 to erect school and settlement-house for Jewish children; 50x90 feet; brick; will not erect for six months. Address Abe Solsberg, Weather-ford St., Fort Worth. (Mentioned lately.) 50×90

ford St., Fort Worth. (Mentioned acceptance).

Tex., Fort Worth.—Bids will be received until May 3 for erection of brick fireproof high-school building; plans and specifications at office of Waller, Shaw & Fields. tions at office of Wa architects, Fort Worth.

Tex., Fort Worth.—Board of Education of Independent District will receive bids until May 3 for erection of brick and fireproof aigh-school building; also bids for plumbing, heating and wiring; certified check for 2 per cent, amount of bid; plans and specifications on file at office of Waller, Shaw & Field, architects, Fort Worth. (Previously ned.)

Tex., Gause.—City voted \$8000 bond issu-perect brick school. Address The Mayor.

Tex., Houston.-Trustees of Common School Tex., Houston.—Trustees of Common School District No. 25, care of L, L. Pugh, County Superintendent, Prince Theater Bidg., will receive bids in duplicate until May 7 for erection of two schools; certified check for \$250, payable to L. L. Pugh; plans and specifications on file at office of E. Lane, archit tect. Houston.

Tex., Lorena.—Lorena independent school district voted \$5000 bond issue and will erect addition to school. Address district school trustees

Tex., Marlin.-L. P. Robertse of trustees, will receive blds until May 5 for crection of 10-room addition to school; certi-fied check for 5 per cent. amount of bid; plans and specifications on file at office of Scott & Pierson, architects, Waco, Tex., or of Dr. Robertson, Marlin. Tex., Mercedes.-City is having plans pre-pared by Atlee B. Ayers, San Antonio, Tex., for proposed \$12,000 school building.

Tex., Milford.—Milford Independent School District received bids until April 28 for erection of two-story-and-basement brick school; W. J. Hamiett, president of the School Board; plans by J. O. Galbraith, Hillsboro, Tex.

Tex., Paducah.—Bids will be received by School Board until April 30 for erection of two-story-and-basement brick school; plans and specifications on file at office of C. L. Sone, Paducah, Tex., or of Taylor & Wolfe, ntal Bank Bldg., Fort Worth, Tex.;

Tex., Pearsall.-City will vote April 30 on bond issue to erect school. Address The Mayor

Tex., Roby.-Board of Education, T. May field, president, will let contract about May 30 for erection of school building recently noted; two stories; 115x65 feet; cost \$22,000; lans by Bryan Architectural Co., St. Louis Mo., and McAlester, Okla.

Tex., Trinity.—Trinity School District is aving plans prepared for school building; 160 feet square; two stories; brick; electric lighting; cost 30,000. (\$16,000 bond issue re-cently noted.)

Va., Luray.-Board of Education, J. A. Rolbuilding recently noted; mill construction; J. A. Rol-ler, clerk, will crect 31x66-foot high-school building recently noted; mill construction; jacketed stoves, with ventilators; electric lighting; bids to be opened May 2; plans and pecifications on file at office of division uperintendent; F. T. Amiss, president.

Va., Richmond.-C. P. Walford, clerk and upervisor of School Board, will receive bids antil May 9 for erection of school on Han-over Ave.: 20 rooms; fireproof construction er Ave.; 20 rooms; fireproof construction: d-air heat (fan system); cost \$60,000; certified check for \$500, payable to order of School Board; separate bids for heating and ventilating system; plans and specifications on file at office of C. M. Robinson, architect, 922 East Main St., Richmond. (Recently mentioned. See 'Machinery Wanted.")

W. Va., Parkersburg.—Board of Education ontemplates erection of school in Kraft district.

W. Va., Keyser. — Keyser Independent School District of Mineral County will vote May 17 on \$25,000 bond issue for site and erection of school. Address District Board

THEATERS

Tex., San Antonio.—Karl Hobletzelle, presi dent Interstate Amusement Co., contemplates it is reported, erection of theater to cost \$125,000; Mr. Hobietzelle is registered at St. Anthony Hotel

WAREHOUSES

onville.-St. Johns River Termi nal Co., J. B. Munson, president, Macon, Ga. plans erection of import and export ware

Ky., Springfield. - Springfield Loos Tobacco Warehouse Co. Incorporated with \$12,000 capital stock by C. W. Camden, L. A. Burns and Elmer Yankey.

Md., Baltimore.-International Harvester Md., Baltimore.—International Harvester Co. of Chicago, III., purchased site, 100x120 feet, on Dickson St., between Mosher St. and Lafayette Ave., on which to creet warehouse costing about \$40,009; Elmer H. Derr, local manager, 406 South Eutaw St.

Md., Baltimore.-John O'Neill will \$5000 feed warehouse; 43x61 feet; ordinary construction; gas lighting; plans by H. Hil-ditch, 1640 Hanover St., Baltimore. (See "Machinery Wanted.")

Md., Baltimore.—Baltimore Belting Co., 113-115 West Lombard St., has plans by C. Barton Keen, Philadelphia, Pa., for five-story warehouse at 113-117 West Lombard St.

N. C., Albemarle.-Stanly Union Ware rporated with \$25,000 capital stock by C. C. Miller, J. W. Fink and others.

8. C., Charleston.-Grace & Co. of New York will, it is reported, construct ware-house at foot of Calhoun St. for storing fer-

Tenn., Nashville,-Bradford Wholesale Fur niture Manufacturing Co. will erect ware nouse to replace structure recently reported surned; amount of insurance on building.

chased site 100x175 feet on which to erect four-story brick building.

Tex., San Angelo.—National Biscuit Co., ew York, reported to erect \$15,000 ware-ouse for branch distributing plant; J. E. Walls, local manager

Tex., San Marcos.-Smith & Griffin will et wareho

Va., Lynchburg.-J. W. Ould will, it is re erect warehouse for use of J. Ould Company.

BUILDING CONTRACTS AWARDED

APARTMENT-HOUSES

Ky., Louisville.—L. Keller & Son of Louisville prepared plans and have contract to erect apartment-house at 2d and Breckin-ridge Sts.; three stories; brick and concrete; fireproof; cost \$55,000. ridge

Md., Baltimore.-Roslyn Realty Co., 314

Brown & Wilson, 1625 Edmondson Ave., Baltomore, for erection of brick three-family apartment-house recently noted; steam heat; roof; mahogany interior finish; steam heat apartment-nouse recently noted; steam heat; gas and electric lighting; cost \$3500; plans by Henry J. Tinley, 314 North Charles St., Baltimor

ASSOCIATION AND FRATERNAL BUILDINGS

Ga., Statesboro—Lodge.—Knights of Pyth-las awarded contract to S. A. Rogers, Statesboro, for erection of proposed lodge building; 30x90 feet; electric lighting; cost

Tex., Cumby.-Masonic Lodge will expend \$5000 to erect lodge building: 28x75 feet tract recently noted awarded to G. H. Wiln, Sulphur Springs, Tex

BANK AND OFFICE BUILDINGS

Ala., Gadsden.-Etowah Bank & Savins a warded contract to Southeastern Englering Co., Birmingham, Ala., at about \$50, for erection of bank and office building four stories; brick and steel; steam heat electric lighting; electric elevator; tile floor ling in banking-rooms; offices on upi floors; plans by C. E. Bearden, Chattanoo, Tenn.; J. Wadsworth, Birmingham, Ala., president of bank. (Recently mentioned.)

Fla., West Palm Beach. - G. G. Strohnwarded contract to Grant & Botts of Wes Palm Beach to erect office building; two iories : cement stone : 20x60 feet.

Ga., Atlanta.-A. D. Adair and McCarty Bros. will erect office building; 50x100 feet eight stories and basement: cost \$130,000 plans prepared; contract awarded.

Ga., Portal.-Bank of Portal awarded con tract for erection of propo sed bank building dinary construction; 24x50 feet; cost \$3000

La., Mansfield. - People's Bank awarded ntract for remodeling building for banking

Okla., Fairview.—W. L. Stewart has plans by and awarded contract to A. Rodman, Fairview, for erection of proposed office building; 25x40 feet; fireproof vault in rear, 8x12 feet: ordinary construction; electric lighting : cost \$1500.

8. C., Dillon.-Bank of Dillon awarded ontract to T. J. Cooper, Dillon, for erection of office building recently mentioned; brick: 28x130 feet; electric lighting; cost \$20,000; plans by Okel & Cooper, Montgomery, Ala.

S. C., Greenville.—Masonic Temple Co awarded contract to Hugger Bros., Mont gomery, Ala., at about \$50,000 for exterior and interior finishing of office and store building in course of construction; six sto ries and basement; 48x125 feet; height, 7: feet; fireproof; exterior of pressed brick with stone trimmings; 165 office and two store rooms; vapor system of heating; two ele vators, one for passengers and other for pas lans by J. E. Sirrine of Greenville; other outracts awarded are: Barr Hardware Co of Greenville, plumbing; Atlanta (Ga.) Steam Heating Co., steam heating; Whitford Steam Heating Co., Seam heating; Whito-de Mumford, Macon, Ga., electric wiring; Otis Elevator Co., New York, elevators; Hugger Bros, also secured contract for concrete struc-tural work, which is practically completed.

S. C., Yorkville.—S. M. McNeel awarded contract to A. D. Holler, Rock Hill, S. C., for erection of office and by J. S. Starr, Rock Hill, S. C. (See us Structures. Miscella

Tex., Thorndale, - First National arded contract to Dallas (Tex.) contract ection of bank building ries; cost \$11,000; plans by C. D. Hill & Co. Wilson Bldg., Dallas, Tex. (Recently men tioned.)

Tex., Orange.-W. H. Stark awarded contract to A. J. Miller & Co. of Orange to erec office and store building; two stories; con-crete and metal frame; 80 feet deep; fire roof; 20 offices on second floor

Va., Cleveland. - People's Bank awarded va., Crevenia. 1 ropes bank aware contract to Honeycut & Cousins, Norton Va., for erection of bank and office building recently mentioned; concrete block; 22x6 feet; two stories; hot-water heat; lighting not decided; plans by Geo. H. Hill, Bluefield,

Va., Richmond-Virginia Railway & Po Co. awarded contract to I. J. Smith & Co. of Richmond to erect combination office building and carbouse on 7th St.; two stories; brick and concrete; estimated cost, \$40,000. (Previously mentioned.)

CHURCHES

Ala., Birmingham. — South Side Baptist Church, D. H. Marbury, chairman building committee, awarded contract to A. J. Bos-Charles St. awarded contract to tick, Birmingham, for erection of

electric lighting; cost \$60,000; plans by R. H. Hunt, James Bldg., Chattano

Ark., Booneville.—Methodist Church award-d contract to Edward Clevenger of Booneville to erect brick edifice costing \$10,000.

Md., Baltimore, - Protestant Episcopal Church awarded contract to Baltimore Ferro-Concrete Co., 16 St. Paul St., Baltimore, to erect first of group of buildings to constitute Protestant Episcopal Cathedral at St. Paul St. and University Parkway; structure will be of stone and concrete; 120x56 feet; one story; estimated cost \$30,000; plans by Ed-ward H. Glidden, Glenn Bldg., 16 St. Paul St., and Clyde N. Friz, 11 East Pleasant St., ooth of Baltimore. (Recently mentioned.)

Md., Baltimore.—Christ English Lutheran hurch, Hill and Charles Sts., has plans by A. C. Leach, 323 West Charles St., Baltimo for improvements to edifice; improvements will include new stone front, remodeling interior and addition in rear; estimated cost, \$14,000; contract awarded to Henry Pierson & Sons, 1000 Olive St., Baltimore.

Md., Baltimore.—Second Church ocientist, Mount Royal Ave. and Second Church of Christ, St., awarded contract to John Waters, 23
East Center St., Baltimore, to erect edifice;
blick and stone; marble 'rimmings; 39x76
feet; ordinary construction; cost \$30,000; W. East Center St., Baitmore, to erect edince; blick and stone; marble 'rimmings; 39376 feet; ordinary construction; cost \$30,060; W. K. Shepherd and Wm. E. Gaben, architects, 6700 North 6th St., Philadelphia, Pa.

Md., Brunswick.—Reformed Congregation, E. E. Shafer, chairman building committee, awarded contract to C. B. Karn, Brunswick for erection of proposed edifice: 38x60 feet ordinary construction; steam heat; elec lighting; cost \$6000; plans by L. S. Gardi Brunswick. (See "Machinery Wanted.")

N. C., Raleigh.-Edenton Street Methodist Church awarded contract at about \$25,000 to M. A. Moser of Raleigh to erect Sunday-school building; two stories; brick; seating capacity of 1500; A. H. Green, chairman mittee

Tenn., Knoxville.—Gillespie Avenue Bap-tist Church, Rev. A. C. Hutson, pastor, awarded contract for erection of proposed edifice; 40x90 feet; Sunday-school in basement to have seating capacity of 300; C. Shackleford, contractor, Knoxville \$5000; plans by Wm. Ault, Knoxville. Knoxville:

Tenn., Buntyn.—Buntyn Methodist Church, Rev. W. A. Armstrong, pastor, awarded con-tract to E. G. Parish, Jackson, Tenn., for rection of \$15,00

DWELLINGS

D. C., Washington.—George W. W. Manogue, 3201 P St. N. W., awarded contract to E. Campbell, 1114 11th St. N. W., Washingon, for erection of two dwellings at 1631-33 3d St.; two stories; cost \$4000.

D. C., Station A, Washington.—Owen Rab-bitt, 1234 Potomac St. N. W., awarded con-tract to John H. McIntyre, 3223 Volta Pl. N. W., Washington, for erection of residence at 4345 Nebraska Ave. ; two stories ; brick and

rame; cost \$4000.

D. C., Washington.—J. N. Thompson, 2272
Cathedral Ave., awarded contract to Harry
Wardman, 1342 New York Ave., Washington,
for erection of dwelling recently noted; 35x to receive to dwelling receive noted, so that 22 feet; ordinary construction; colonial style; brick; 10-foot porch across front; hot-water heat; electric lighting; cost \$14,-000; plans by A. H. Beers, 1333 G St. N. W., Washington

Ga., Atlanta.tract to J. N. Brown, Atlanta, for erection of proposed two-story dwelling; 11 rooms; pestry brick; cost \$40,000; plans by Harry Walker, Atlanta.

Ga., Columbus.—Ed Wohlwender awarded ontract to W. T. Harvey Lumber Co., Co-umbus, for erection of residence; one story; cost \$5000.

Ga., Columbus.-A. W. Huer awarded contract to W. T. Harvey Lumber Co., Columous, for erection of residence; two stories; e : cost \$5000.

Ky., Winchester.-Thomas Brock awarded ntract to Newt. Powell, Winchester, for ection of residence.

Ky., Winchester.-Eli Dooley awarded contract to Newt. Powell, Winchester, for erec-

Md., Baltimore.-Charles R. Brown awarded contract to E. J. Klemm, Liberty Heights and Milford Aves., Baltimore, for erection of residence; 26x30 feet.

Md., Baltimore.-J. A. Paige, 3204 Clifton Ave., awarded contract to Baltimore Ferro-Concrete Co., 16 St. Paul St., Baitlmore, for erection of residence on 19th St. near Clifton Ave.; two and a half stories; brick; 28x32 feet; cost \$5800. Md., Baltimore.—W. P. Cornell and Miss Helen Cornell awarded contract to Webb & White, Maryland Telephone Bidg., Baltimore, for erection of cottage at Catalpha Rd., Alisa Terraces; two and a half stories; frame; cost \$4500; plans by Herbert C. Aiken, 223 St. Paul St., Baltimore.

Md., Baltimore.—Joseph L. Schwarzkopf, 1218 Argyle Ave., awarded contract to W. H. Engel, Baltimore, for erection of dwelling at Augusta and Baltimore Aves.; three stories: brick; 33x40 feet; cost \$4500; plans by H. J. Tinley, 314 North Charles St., Baltimore.

Md., Gwynn Oak Uplands (not a postoffice).—Mrs. Laura Sigler has plans by and
awarded contract to Emil J. Klemm, 225 Law
Ridg., Baltimore, for erection of 26x30-foot
dwelling recently noted; mill construction;
hot-water heat; gas and electric lighting;
cost \$4000.

Md., Gwynn Oak Uplands (not a postoffice).—Chas. R. Brown, 394 Old York Rd., Baltimore, has plans by and awarded contract to Emil J. Klemm, 225 Law Bldg., Baltimore, for erection of 26x30-foot dwelling recently noted; mill construction; hot-air heat; electric lighting; cost \$3750.

S. C., Darlington.—Methodist Church awarded contract to Mr. Harmon, Darlington, for erection of parsonage to replace burned structure.

Tenn., Knoxville.—B. W. Akers awarded contract to A. C. Senton, Knoxville, for erection of residence; frame; two stories; cost \$2500

Tex., Ballinger.-H. Gieske awarded con tract for erection of residence; cost \$16,000.

Tex., Marlin.—F. H. Ragsdale awarded contract to J. A. Phipps, Marlin, for erection of six-room dwelling recently noted; mill construction; electric lighting; cost \$2700.

Va., Fredericksburg.—George W. Shepherd awarded contract to Frank P. Stearns, Fredericksburg, for creetion of residence; brick; plans by Philip N. Stern, Fredericksburg.

Va., Lynchburg.—W. M. Stokes awarded contract to Jones & Adams, Lynchburg, for crection of residence at Randolph-Macon Heights; English style; cost \$7000; plans by Johnson, Pettit & McLaughlin, Lynchburg.

Va., Newport News.—L. F. Whiting awarded contract to R. H. Richardson & Son, Hampton, Va., for erection of residence; cost 95500

Va., Norfolk.—W. S. Wilkinson awarded contract to Seay Bros., Norfolk, for erection of dwelling recently noted; 26x50 feet; brick and frame; hot-air heat; gas and electric lighting; cost \$5000; plans by Arnoid Eberhard, Norfolk.

Va., Richmond.—P. E. Eubank awarded contract for erection of dwelling recently mentioned; two stories; brick; 40x35 feet; cost \$4500; plans by owner.

W. Va., Chaffee.—Three Forks Mining Co., Real Estate Trust Bidg., Philadelphia, Pa., awarded contract to William A. Liller, Keyser, W. Va., for erection of 10 dwellings and store; 28x28 feet, with wing 11x22 feet; 10 rooms each; frame. (See "Machinery Wanted.")

W. Va., Douglas.—Cumberland Coal Co., W. H. Gorman, president, Continental Bidg., Baltimore, Md., awarded contract to W. A. Lillier, Keyser, W. Va., for erection of eight double houses; 28x28 feet; 10 rooms each; frame.

GOVERNMENT AND STATE BUILD-INGS

N. C., Goldsboro—Postoffice.—R. H. Richa: dson & Son, Hampton, Va., have contract at about \$15,000 to crect United States postoffice. (Previously mentioned.)

Tex., Galveston—Life-saving Station.—Funk, Gracie & Co. of Galveston have contract at about \$10,000 to erect U. S. life-saving station on Pelican Spit. (Further facts recently mentioned.)

HOTELS

Okla., Oklahoma City.—W. B. Skirvin awarded contract to Oklahoma City Construction Co. to erect hotel; six stories; 75x 140 feet; reinforced concrete; terra-cotta trimmings; 134 rooms, each with bath connecting; two electric elevators; estimated cost, \$200,000; plans by Layton, Smith & Hawk of Oklahoma City. (Recently mentioned.)

Tex., Seguin.—William Steinmeyer awarded contract at \$5759 to John W. Goodrum of Seguin to erect annex to Grand Central Hotel; hotel proper will also be remodeled, but this is not included in contract. (Recently mentioned.)

Va., Warrenton.—C. Ullman, owner Warren Green Hotel, awarded contract to Harris Bros. of Warrenton to erect addition to hotel. Va., Richmond. — Mrs. A. D. Atkinson awarded contract to John T. Wilson of Richmond at \$294,363 to erect annex to Richmond Itotel; 10 stories; brick and concrete; three passenger elevators and one freight elevator; will also erect two additional stories to present eight-story hotel; cost \$250,000 plans by John K. Peebles, Law Bldg., Norfelk, Va. (Recently mentioned.)

MISCELLANEOUS STRUCTURES

Ala., Montgomery—Business.—L. I. Hill awarded contract to James Hodgaon, Montgomery, for erection of business building; three stories; brick; cost \$9000; plans by Frank Lockwood, Montgomery.

Ala., Montgomery Stable. N. J. Greil awarded contract to Graves & Estes, Montgomery, for erection of stable; two stories; brick; cost \$6000.

Fla., Palatka—Store.—Mrs. M. J. Murphy has plans by and awarded contract to George Tillman, Palatka, for erection of proposed store building; 35x75 feet; two stories; pressed brick; plate glass; cost \$7900.

Fia., Pensacola—Business.—J. M. Muldon awarded contract to Turner Construction Co. Pensacola, for erection of business building to be occupied by Rhodes-Futch-Collins Furniture Co.; three stories; brick and reinforced concrete; plans by Walker Willis, Pensacola.

Ga., Claxion—Store.—J. G. Moore estate awarded contract to S. A. Rogers, Statesboro, Ga., for erection of store building recently noted; 54x50 feet; two stories; cost \$4000.

La., St. Bernard-Hall.—St. Maurice Mutual Aid and Benevolent Association awarded contract to Beer & Simms, St. Bernard for erection of hall; cost \$4000.

Md., Baltimore — Hospital.—Hebrew Hospital, Monument and Ann Sts., has plans by Louis Levy, American Bldg., Baltimore, for addition to children's ward; contractors estimating include W. H. Porter & Son, 505-7 Forrest St.; B. F. Bennett Englneering Co. 123 South Howard St.; R. B. Mason, 324 West Biddle St.; Milton C. Pavis, 5 Hopkins Pl.; Charles L. Stockhausen, National Marine Bank Bldg., and James F. Farley, Franklin Bldg., all of Baltimore; will receive bids until April 29.

Md., Baltimore—Hospital.—Robert Garrett Hospital for Children, 27 North Carey St., awarded contract to John Cowan, 106 West Madison St., Baltimore, for erection of addition; three stories; 17x56 feet; brick; cost \$8500.

Miss., Newton — Store. — Eagle & Wise awarded contract to A. L. Myers, Newton, for erection of store; two stories; brick; 59x100 feet; pressed brick; plate-glass front; cost \$7500.

N. C., Lilesville — Business, — E. J. Kerrawarded contract for erection of business building; two stories; pressed brick; cost \$2500.

S. C., Yorkville—Stores.—S. M. McNeel awarded contract to A. D. Hoiler, Rock Hill, S. C., for erection of store and office building previously noted; four stores on ground floor; 27x80 feet each; second floor to contain nine offices and theater; plate glass; the floors to stairway; plans by J. S. Starr, Rock Hill, S. C.

Tenn., Chattanooga—Store.—Mrs. M. V. Neeley, 220 McCallle Ave., awarded contract to Chickamauga Quarry & Construction Co., James Bidg., Chattanooga, for concrete and stone foundation for store and office building recently described; three stories and basement; 104 feet 7 inches by 87 feet 5 inches; brick; composition roof; steam heat; gas and electric lighting; ground floor to contain stores; second and third to have offices.

Tenn., Rogersville.—Hawkins County Commissioners awarded contract to C. B. Willing, Morristown, Tenn., for erection of jail and sheriff's dwelling; jail to be 30x31 feet and residence 18x42 feet; fireproof construction; steam heat; electric lighting; cost \$8000. (Contract recently incorrectly noted awarded to Willing & Hodges, Rogersville.) Tex., Conroe—Business.—W. N. Foster awarded contract for erection of business building; two stories; brick.

Tex., Dallas — Business. — Regina Kellar awarded contract to Gowins & Schwan, Dal las., to creet business building; two stories: brick; cost \$5000.

Tex , Lockhart—Business.—Storey & Masur Bros. will erect business building; two stories; brick and stone; 75x78 feet.

Tex., Palestine.—John H. Silliman awarded contract at \$13,500 to J. B. Roundtree, Palestine, for erection of business building; brick; two stories; 20-foot cellings. (Previously mentioned.)

Tex., San Angelo.-Sisters of Charity of

Incarnate Word awarded contract to Willeke Fros., San Antonio, Tex., for brick and stone work on sanitarium recently noted to be erected: 74x146 feet; semi-fireproof and mill construction; hot-water heat; electric lighting; cost \$65,000; plans by Wm. Engelbardt, San Antonio, Tex.; contracts for heating and lighting will be let to local contractors; Theo. Engelbardt will supervise construction. (See "Machinery Wanted.")

Tex., Smithville—Business.—E. Buesher awarded contract to M. M. Turrey, Smithville, for erection of business building; brick; 100x27 feet.

Va., Roanoke—Store.—W. F. Winch awarded contract to R. A. Figgatt, Roanoke, for erection of store building; two stories; brick and concrete.

W. Va., Chaffee—Store.—Three Forks Min ing Co. awarded contract to William A. Lil ler, Keyser, W. Va., for erection of store (See "Dwellings.")

MUNICIPAL BUILDINGS

W. Va., Wheeling—Library.—City awarded contract to Charles W. Dowling, Marletta, O., to erect public library on Market 8t.; 89x98 feet; two stories; fireproof construction; cost \$39,000; William Hare's Sons at \$390 for plumbing; R. W. Kyle at \$1572.49 for heating; American Electric Co. at \$279.20 for electric wiring, all of Wheeling; Charles W. Bates, architect, 301 Schmulbach Bldg., Wheeling. (Recently mentioned.)

RAILWAY STATIONS

Ga., Moultrie.--Georgia Northern Railway, F. R. Pidcock, general superintendent, will erect two-story depot and office building; contract reported awarded to G. W. Milligan of Moultrie.

SCHOOLS

Ala., Birmingham.—City awarded contract at \$27,500 to Jesse L. Burns, Woodlawn, Ala., for erection of colored school; plans by Harry B. Wheelock, Birmingham. (Recently mentioned.)

Louisiana.—Parish of St. Bernard awarded contract to J. C. Bourg, Arabi, La., for erection of proposed Fifth ward school; 22x18 feet; frame; cost \$2500; plans by contractor; building on percentage.

Okla., Oklahoma City. — Board of Education, Gus A. Elbow, secretary, \$22 Insurance Bldg., awarded contract to Kennedy & Hobson, Oklahoma City, for erection of 10-room fireproof school building; cost \$38,114; to Oklahoma City Construction Co., Oklahoma City, for two eight-room fireproof buildings cost \$27,900 each; heating and plumbing contracts let separately; Layton, Smith & Hawk Majestic Bldg., Oklahoma City, recently noted as preparing plans. (See "Machinery Wanted.")

Tenn., Paris.—Trustees of E. W. Grove high school will expend \$12,500 to erect dormitory; 40x70 feet; two stories and insement: gray hydraulic pressed belek; gravity steam heat; lighting not decided; plans by B. C. Davis, Louisville, Ky.; contract recently noted awarded to C. V. Krider, Paris. (Incorrectly mentioned at Paris, Tex.)

Tex., Beaumont.—City awarded contract at \$88,000 to H. D. Applegate & Sons, Beaumont for erection of Millard, South End and Avcrill schools; two stories; brick. (Previousty mentioned.)

Tex., Dimmitt.—City awarded contract to W. M. Rice, Amarillo, Tex., for erection of proposed \$15,000 school.

Tex., Pasadena.—Harris county awarded contract at \$8750 to Castle, Podds & Co., South Houston, Tex., for erection of school; two stories; brick; L. L. Pugh, County School Superintendent; plans by Cooke & Co., Houston, Tex. (Recently mentioned.)

Va., Lynchburg.—City awarded contract at \$91,000 (exclusive of heating and fixtures) to C. W. Hancock & Sons, Lynchburg, for erection of high-school building; plans by Frye & Chesterman, 14-15-16 Lynchburg National Bank Bidg.; structure to be three stories; 200x83 feet; fireproof and ordinary construction; cost \$92,000. (Previously mentioned.)

Va., Norfolk.—City awarded contracts to Gregory & Williamson, 701 Law Bidg.. Norfolk, for crection of annexes to schools as follows: Atlantic City School No. 1, four rooms, at \$15,216; Atlantic City School No. 2, eight rooms, at \$25,249; Brambleton School No. 7, four rooms, at \$10,199.99; plans by Ferguson, Calrow & Taylor, Law Bidg., Norfolk; fireproof boller space in two smaller and fireproof basement in larger addition; balance ordinary construction. (Recently mentioned.)

W. Va., Foliansbee.—City awarded contract to H. P. West, Wheeling, W. Va., for erection of four-room school; cost \$12,000.

WAREHOUSES

Ga., Augusta.—George R. Lombard, care of Lombard Iron Works & Supply Co., will erect warehouse for Augusta Hardware Co.; structure will be two stories; brick; 90x159 feet; cost \$10,500; mill construction; two hand elevators; contract awarded to Mr. Skinner, Augusta. (See "Machinery Wanted.")

Ga., Stillmore.—W. J. Evans and E. H. Heath awarded contract to S. A. Rogers, Statesboro, Ga., for erection of brick warehouse; 50x110 feet; cont 3400. (Recently noted under "Bank and Office Buildings.")

Md., Baltimore.—William G. Albrecht, president The Albrecht Company, 200 South Sharp St., awarded contract to James F. Farley, Frankiln Bidg., Baltimore, to erect four story brick warehouse at 211-213 Sharp St.: cost about \$13,000; plans by Callis & Callis, 2000 St. Paul St., Baltimore.

Mo., Kansas City.—Bemis Bros. Bag Co. awarded contract to C. L. Gray Construction Co., St. Louis, Mo., for erection of warehouse recently noted; six stories and basement; fireproof construction.

RAILROAD CONSTRUCTION

RAILWAYS

Ala., Birmingham.— The Dauphin Island Railway & Harbor Co. has been organized at the Birmingham offices of the Tidewater Development Co. to build a railway and terminals at Dauphin Island in Mobile Bay, 50 miles south of Mobile, also railroad from there to Mobile. The Tidewater Development Co. will establish connections between Tuscaloosa and Mobile Bay. The directors of the new corporation are George T. Bishop of Cleveland, O., president and treasurer; F. F. Graves of Chicago, Ill., vice-president; J. M. Dewberry of Birmingham, Ala., secretary; F. H. Ginn of Cleveland, O., and D. E. Mitchell of Lebanon, Tenn.

Ala., Cochrane.—The Alabama, Tennessee & Northern Railrond, which now extends to Bodea Creek, will probably lay eight miles of track out of there within the next two months, and it is expected to extend it further this summer to York, Ala., about 14 miles. William Toxey is chief engineer at Panola, Ala.; John T. Cochrane of Mobile is president.

Ala., Lillian.—The Pensacola & Southwestern Ralirond Co., with general office at Lillian, will build seven miles of line from Miliview, Fla., to Lillian, Ala. Contract is let to Henry McLaughlin of Pensacola, Fla. Charles Barclay of Lillian is president and Junius B. Hall of Pensacola is secretary. The construction includes a wooden bridge on piles across Perdido Bay, 4000 feet long, with steel draw span of 30 feet.

Ala., Mobile.—The New Orleans, Mobile & Chleago Railrond Co. proposes to build extensive terminals in New Orleans, and has applied for franchises to enter the city. W. F. Owen is general manager at Mobile, and H. W. Bell at Laurel, Miss., and L. W. Duffee at New Albany, Miss., are engineers.

Ala., Gadsden.—The Noccalula Railway,

Ala., Gadsden. — The Noccalula Railway, Light & Power Co., not yet chartered, but promoted by Louis Hart, H. A. Rogers and others, proposes to build 14 miles of line from Gadsden to Falls and Loop. Mr. Greffenkamp is engineer.

Ark., Ben Lomond.—Citizens of Ben Lomond have, it is reported, subscribed a bonus of \$15,000 for the first railroad building to that town. The Mayor may be able to give information.

Ark., Fort Smith.—The Fort Smith & Van Buren Railway Co. will build six miles of line from Fort Smith to Van Buren, Ark., as previously reported. The directors are W. Dratt, president; R. 8. Robertson, Samuei McLoud, John C. Gardener, James B. McDonough. The secretary and treasurer is Harry T. Daily. Route is through rolling country, and blds for construction and equipment will be received within 30 days.

Ark., Little Rock.—The St. Louis, Iron Mountain & Southern Railway (Missouri Pacific system) is reported to have let contract to the Walsh Construction Co. of St. Louis for 66 miles of second track from McAlmont to Baid Knob, Mo.; also another contract to Bail & Peters of Little Rock, Ark., for second track from the White River to Diez, 8 miles, and also from Harvil to Poplar Bluff, 8 miles. Other second track to be built at some time in the future is from Baid Knob to White River, 20 miles, and from Diez to Harvil, about 88 miles. E. F. Mitchell is engineer of construction at St. Louis, Mo.

Ark., Nashville.—C. W. Dodson, general superintendent of the Memphis, Paris & Guif Railroad, is reported as saying it is decided to build the eastern extension from Murfreesboro to Memphis, Tenn., before the western extension is constructed. Route is via Arkadelphia, Pine Bluff, De Witt. St. Charles and Helena, Ark. H. C. McCluer is chief enginer at Nashville, Ark.

Ark., Tontitown.—Construction is reported begun on a railroad seven miles long from Tontitown to Cane Springs, on the Arkansas, Oklahoma & Western Railway. W. R. Falker, president of the latter, at Rogers, Ark., may give information.

Fla., Jacksonville.—The Jacksonville Term inal Co. is reported to have let contract to improve its terminals at a cost of about \$100,000. The work includes an extension of tracks and trainsheds, besides other improvements. J. H. Nelson is superintendent.

Ga., Bowdon.—The Bowdon Railway Co. has chosen officers as follows: President J. L. Lovvorn of Bowdon, Ga.; vice-president, J. M. Terrell of Atlanta, Ga.; treasurer, A. E. Fleming; chief engineer, George D. Hairis. Others interested are C. R. Porter of Rome, Ga.; Thomas J. Lovvorn of Neweli, Ala.; Dr. G. W. Traylor of Lamar, Ala.; R. M. Lovvorn, H. J. Reaves and J. W. Barrow, all of Bowdon, Ga. The line will run from Bowdon via Burwell and Mount Zlon to a point on the Georgia Central or on the Southern Railway, a distance of from 12 to 18 miles.

Ga., Savannah.—Application has been made to charter the Brinson Railway Co., which contemplates extending to Athens, Ga., about 110 miles, from Mill Haven, which is the present terminus. The present line is 72 miles long from Savannah to Mill Haven via Springfield and Sylvania. The incorporators include George M. Brinson, president and superintendent; W. C. Myers, auditor; Y. E. Bargeron and John E. Foy of Springfield, Ga.; James Imbrie of New York city, J. Walker of Screven county, Georgia, and R. M. Hitch and R. L. Denmark of Chatham country Georgia.

Ga., Vidalia.—The Georgia Coast & Piedmont Railroad Co. has not decided to build from Collins to Vidalia, about 29 miles, the question being yet open as to whether the line will run to Vidalia or to Lyons, five miles east of there. A. De Sola Mendes is vice-president and general manager at Darlen, Ga.

Ga., Wrightsville.—The Wrightsville, Adrain & Lyons Raliroad Co. has organized to build a line of about 40 miles connecting the points named, but it is not decided when work will begin. The officers are: T. J. James, Adrian, president; W. C. Oliver, Lyons, first vice-president; J. H. Rowland, Wrightsville, second vice-president; W. K. Staten, Adrian, secretary; E. J. Sumner, Wrightsville, treasurer; headquarters af Adrian.

Adrian.

Ky., Cynthiana.—The Cynthiana, Newport & Licking Valley Traction Co. has opened offices preparatory to beginning construction of its line from Cynthiana to Paris and Newport, Ky., about 65 miles. W. S. Gray of Gray & Co., railroad contractors, Louisville, Ky., is consulting engineer, and bids may be soon invited. (Previously mentioned February 10.)

La., Jennings.—The Lake Arthur, Jennings & Northern Railroad Co. is reported to have sold \$120,000 of bonds voted by Ward 10 for building it, and it is expected the date will soon be named for a survey and construction. Line is to run from Lake Arthur to Jennings, and possibly Elton and Alexandria, La. E. P. Fox is president and general manager and B. B. Bliss is secretary.

Md., Baltimore.—The Baltimore & Pennsylvania Railway Co., recently chartered by the Legislature, proposes to build an interurban electric railway connecting Baltimore with Hanover, Pa., and other points. Construction from a point near Baltimore is to begin shortly by the Maryland Construction & Development Co., which has the contract. The work immediately proposed is from Baltimore to Hanover, 42 miles. Office at 1202 Calvert Bidg., Baltimore. Directors: J. Pierce Bruns, president, Baltimore, Md.; Jacob H. Sherman, vice-president, Carroll county; Newton S. Watts, also of Carroll county; treasurer: Joseph P. Reynolds of Baltimore, secretary; John H. Wilson and Jacob A. Frederick of Carroll county; W. T. Detrick, Daniel S. Reisenweber, J. S. T. Waters, I. Howard Tebbs of Baltimore and William H. Alexander. Route via Fowblesburg, Arcadia, Hampstead, Greenmount and Manchester, Md.

Miss., Jackson.—The New Orleans Great Northern Raliroad is reported to have bought right of way for an extension of several miles and will build its own terminals in Jackson, Miss. N. G. Pearsall is general manager at Bogalusa, La.

Mo., Kansas City.-According to a dispatch

from Chicago, the Santa Fe will spend \$2,000, 600 for a new bridge at Kansas City. C. F. W. Felt is chief engineer at Topeka, Kans.

N. C., Ahoskie.—B. B. Winborne of Murfreesboro, N. C., will apply for a charter to build the proposed railroad from Ahoskie to Emporia, Va., about 65 miles. W. S. Goodwyn of Emporia, Va., will apply for the charter in that State.

N. C., Marion.—The T. T. Adams Company, 709 Mutual Bidg., Richmond, Va., is inviting bids to build eight miles of narrow-gauge steam logging railroad along Armstrong Creek, in this (McDowell) county.

Okla., Anadarko.—The Anadarko & Western Railway Co. has been chartered to build a line 50 miles long in Caddo county from a point near Alden via Anadarko to a point near the boundary of Grady county. The incorporators are C. H. Ford, president; G. D. Driskill, vice-president; L. M. Spivey, secretary; W. F. McCracken, treasurer; L. J. Olge, E. H. Luitweiler, A. Youngheim, M. Leonard, H. C. Bradford and B. J. Mitchell, all of Anadarko.

Okla., Muskogee.—The Muskogee Transit Co., capital \$100,000, has been chartered to build an interurban railway from Muskogee to Wagoner, Corrtea, Coweta, Broken Arrow, Tulsa, Sapulpa, Haskell, Boynton, Okmulgee, Checotah, Warner, Webbers Falls, Illinois Station, Braggs, Fort Gibson, Henryetta and intervening towns, 225 miles. The directors are E. W. Mangson and Oliver J. Barwick of St. Louis, O. D. Revell of Asheville, N. C.; Tams Bixby, Charles W. Bliss, M. R. Williams, Thomas P. Smith, M. M. Bragdon, N. F. Hancock, W. N. Sayer and George A. Murphy of Muskogee, Okla.

Okla., Oklahoma City.—Reported that the Frisco system will build new terminals at Oklahoma City to cost \$490,000. F. G. Jonah is chief engineer of construction at St. Louis, Mo.

Okla., Oklahoma City.—The Santa Fe system, it is reported, contemplates building an addition to its terminals at Oklahoma City.

C. A. Morse is chief engineer at Topeka,
Kans.

Okla., Okmulgee.—The directors of the Okmulgee & Coalton Railroad, recently chartered to build a line from Okmulgee to Coalton, eight miles, are W. J. Cook of Muskogee, C. S. Dawley, N. D. Boyd, T. J. Baker. Waiter W. Martin, E. W. Gill, A. F. Seidler, Lee O. Voorhees, G. W. Mecklin, A. D. Kennedy, John A. Bedford and R. D. Carpenter of Okmulgee.

Okla., Walters.—A dispatch states that construction has begun on the Kansas, Lawton & Guif Railroad at Walters, the line to run from Oklahoma City to Wichita Falls. Tex. A. W. Greene is president and J. M. Bellamy of Lawton, Okla., vice-president.

S.C., Spartanburg.—An officer of the Green ville & Spartanburg Electric Railway Co. Is quoted as saying that while surveys are not fully completed, it is expected to begin construction soon. Several bridges required; length, 32 miles. E. H. McCullough of Green ville and others are interested.

Tenn., Bristol.—Rumored that the Virginia & Southwestern Railway is contemplating an extension into coal fields in Harian county, Kentucky. J. H. McCue is manager at Bristol, Tenn. W. W. Finley is president at Washington, D. C., and also president of the Southern Railway.

Tenn., Chattanooga,—Official denial is made of the report that the Louisville & Nashville Railroad Co. contemplated an extension from Old Point to Chattanooga.

Tex., Cleburne.—H. M. Hyatt of the Empire Construction Co., St. Louis, Mo., is quoted as saying that he is organizing company to build an interurban railroad from Dallas to Cleburne, Tex., via Eagle Ford, Gates, Grand Prairie, Webb, Mansfield, Lillian, Pleasant Point, Alvarado and Messton.

Tex., Cleburne.—The Santa Fe system, it is reported, will spend \$550,000 for new freight yard and other facilities at Cleburne. C. F. W. Felt is chief engineer at Popeka, Kans.

Tex., Dallas.—The Dallas Terminal Rallway & Uulon Depot Co. has applied for authority to build yards in the southern part of Dallas and near Austin, Henning and Belview Sts. W. C. Connor is president.

Tex., Galveston.—According to a dispatch from Chicago, the Santa Fe will spend \$2,-000,000 this year for revising line between Galveston and Coleman, Tex. C. F. W. Felt is chief engineer at Topeka, Kans.

Tex., Houston.—The Houston & Bay Shore Traction Co., promoted by A. F. Irwin of Detroit, Mich., and others to build 24 miles of line connecting Houston, Ls Porte and other points, will have 19 bridges and culverts, most of them of concrete. Frederick Busby and J. S. Miller are the construction engineers.

Tex., Quanah.—The Quanah, Seymour, Dublin & Rockport Railroad Co. will build 478 miles of line from Quanah to Rockport, Tex., on Aransas Bay vin Medicine Mound, Thalia, Seymour, Strawn, Dublin and Austin. The incorporators are L. E. Walker of Marshall, Tex., president and general manager; Harry Koch and Porter A. Whaley of Quanah, Tex.; T. L. Davie of Austin, S. Plants of Seymour and S. T. Ditcher of Dublin, Tex. M. K. Iler is vice-president; G. L. Vining, secretary-treasurer, and R. Y. Walker, chief engineer. Construction will begin in perhaps two months. Date for inviting bids not yet fixed.

Tex., San Antonio.—An officer of the Missourl, Kansas & Texas Railway denies the report saying that nothing has been done looking toward the acquirement of terminals at San Antonio or building an extension south from there.

Tex., Stephenville.—The contemplated extensions of the Stephenville North & South Railway, for which charter amendments have been approved, are Hamilton to Gatesville, 32 miles; Stephenville to Thurber, 26 miles; Hamilton to Comanche, 35 miles. W. S. Watson is secretary at Stephenville, Tex.

Tex., Smithville,—James H. Collins, constructing engineer, 88 La Salle St., Chicago, has investigated the proposed route of the Smithville & Aransas Pass Railroad, and, it is said, has made financial arrangements to build the line. As soon as propositions to the various towns are accepted survey will begin.

Tex., Temple.—Construction of the Temple & Northwestern Railway has been started at Hamilton, Tex. John L. Spurlin of Hamilton, Benjamin Haralson of Tenple and others are interested. C. M. McConnico and J. S. Moore of Lufkin, Tex., are the contractors.

W. Va., Elkins.—The Coal & Coke Railway, it is reported, is surveying for a contemplated extension to Rowlesburg, W. Va., about 35 miles. R. H. Pembroke is chief engineer at Elkins, W. Va.

W. Va., Elkins.—The Coal & Coke Railway is reported to have begun construction of its extension from Roaring Creek Junction to Elkins, eight miles. R. H. Pembroke is engineer.

W. Va., Fairmont.—An officer of the Baltimore & Ohio Raliroad is quoted as saying that a spur one mile long will be built along Lost Creek Valley to the operation of the Upper Lehigh Coal Co. A. W. Thompson is chief engineer at Baltimore, Md.

W. Va., Kingwood.—The Cheat River & Monongahela Valley Railroad Co., which proposes to build a line from a point near Albright, in Preston county, West Virginia, to a point near the State boundary at Cheat Itaven, Pa., has organized by electing Nell J. Fortney president, E. M. Lantz vice-president and treasurer, W. S. Downes secretary, and Julius K. Monroe general manager.

W. Va., Kingwood.—The Atlantic Northern Railroad Co., which proposes to build a line from Parsons, on the Western Maryland Railroad, along the Cheat River to Rowlesburg, on the Baltimore & Ohlo, has organized by electing James W. Flynn president, William M. Schaeffer vice-president, E. M. Lantz treasurer, W. S. Downes secretary, Julius K. Monroe general manager, all at Kingwood, W. Va.

W. Va., Welch.—A movement is reported under way to build an electric railway from Welch to Pageton, thence to the Elkhorn and back to Welch, about 35 miles. The Mayor may be able to give information.

STREET RAILWAYS

Ga., Valdosta.—The Valdosta Street Rail way Co. has decided to build an extension and form a belt line. W. S. West is president.

Miss., McComb City.—W. M. White and J. J. White, Jr., who have been granted a street-railway franchise, propose to build a line about one mile long and operate it with a gasoline motor car.

N. C., Goldsboro.—The Goldsboro Electric Street Railway has been completed and has operated its first car.

Okla., Oklahoma City.—The Oklahoma City. & Suburban Railway, according to a report quoting an officer, has let contracts to John Alley and Matt Corrigan of Oklahoma City for the construction of lines from Britton to Edmund and south to Moore, besides lines in the city. W. A. Haller and others are interested.

S. C., Charleston.—The Charleston Consolidated Railway & Lighting Co. has been chartered by Julian Mitchell, P. H. Gadsden and F. H. Horlbeck with \$1,500,000 common stock and \$500,000 preferred stock. It is proposed to lease the property and franchises of the Charleston Consolidated Railway, Gas & Electric Co., of which Mr. Gadsden is president, and the proceeds of its new preferred stock will be used for six miles of extension and other betterments, which have been decided up on.

Tex., Austin.—Application has been made by John Andreawatha, a local engineer and contractor, for a street-railway franchise.

Tex., Beaumont.—Col. I. D. Polk has applied for a franchise to build an electric street railway in connection with his plan in which L. D. Ross of New York and others are associated to build an interurban railway from Beaumont to Port Arthur.

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Manufacturers and others in need of machinery or supplies of any kind are requested to consult our advertising columns, and if they cannot find Just what they wish, if they will send us particulars as to the kind of machinery or supplies needed we will make their wants known free of cost, and in this way secure the attention of manufacturers and dealers throughout the country. The Manufacturers' Record has received during the week the following particulars as to machinery and supplies wanted.

Air Compressors.—Wm. H. Flaherty, 170 Hawthorne St., Brooklyπ, N. Y., or Guild, Tenn., wants air compressors; 1000 to 3000 feet free air per minute,

Automobile Supplies. - See "Machine shop Equipment, etc."

Bags.—W. Earle Hudmon, care of Opelika Lumber Co., Opelika, Ala., wants prices on bags for sacking cracked cake and cottonseed meal for oil mill, Hamilton, Tex.; also sacks for hulls.

Bank Fixtures, etc.—Morristown Bank & Trust Co., E. M. Grant, president, Morristown, Tenn., will buy furniture and fixtures for remodeled bank building.

Bathtubs, etc.—A. M. Carter, Jr., Box 26, Reynolds, Ga., wants prices on bathtubs and sinks.

Blower System.—Farmers' Ginnery, W. P. King, manager, Clarks Hill, S. C., wants suction for two 70-saw gin outfits.

Boller.—Farmers' Ginnery, W. P. King manager, Clarks Hill, S. C., wants 40-horse power boller.

Bottles, etc.—Dr. Geo. Brown, care of Sanitarium, R. F. D. No. 4, Atlanta, Ga., wants bottles, cartons and labels.

Bottling Machinery.—Ferdinando Bounous, Turin, Italy, wants addresses of manufacturers of apparatus for corking (closing) and uncorking (unclosing) bottles.

Boilers.—Rebuilt Machine & Wrecking Co., Louisville, Ky., wants one 20, one 40 and one 90-horse-power fire-box boilers.

Brick.—W. Earle Hudmon, care of Opelika Lumber Co., Opelika, Ala., wants prices on common brick for oil mill, Hamilton, Tex.; also fire-brick.

Bricks.—Albert L. Dunn, Box 657, Atlanta, Ga., wants prices on bricks for \$15,000 dwelling.

Bricks.—John O'Neill, 2415 York Rd., Baltimore, Md., wants prices on about 80,000 old bricks.

Brick Machinery.—Wm. C. Smith, 431 North Robinson St., Oklahoma City, Okla., wants data and estimates on complete equipment for plant with annual output of 10,000,090 bricks.

Bridge Construction.—Park Commissioners, Paul M. Pope, secretary, 301 City Hall, Oklahoma City, Okla., will open bids May 2 for construction of concrete culverts and bridges on Grand boulevard; plans and specifications on file in office of chief engineer of board; bidders to deposit cash or certified check for 3 per cent. of bid. of w D ni w sp be el H Ju

Bridge Construction.—D. M. Miles, Supervisor, and Commissioner S. H. Culbreth will award contract May 5 for construction of wooden bridge over creek on road leading from Landrum to North Carolina line, and another structure about one-half mile below said bridge over same creek; also on May 18 D. M. Miles, Supervisor, and Commissioner D. P. L. Martin will award contract for construction of bridge over Lawson's Fork near

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Building Materials, etc.-Van Horn & Son Box 571, Tulsa, Okla., want prices on cer plaster and Portland, millwork, sheet-r ork, reinforcing steel, etc., for \$50,000

Building Supplies .- Joseph S. Shaw, goma, W. Va., wants prices on cement, roof-ing, lime, wall plaster, etc., with view to representation by company located at Northfolk, W. Va.

Brick Machinery.-B. A. Irby, 502 East 7th St., Charlotte, N. C., wants machinery for brick plant.

Building Materials .- S. R. Cohill, Hancock Md., wants prices on sash, doors, frames, oak stairway, columns for porch inside trimming for dwelling.

Burlap-cleaning Machinery.-Mortimer Williams, Petersburg, Va., wants addresses of manufacturers of machinery for cleaning second-hand burlap bags.

Canal Construction.-Board of Drainage Canal Construction.—Board of Drainage Commissioners of State of Florida, J. C. Luning, secretary, State Capitol, Tallahassee, Fla., will receive bids until June 15 for excavating five drainage canals in the Everglades; aggregate length, 215 miles; construction requires excavating of 15,750,000 cubic yards of earth and 5,250,000 cubic yards of rock. Specifications and blank proposal forms can be obtained by application to office J. O. Wright, chief druinage engineer. Talof J. O. Wright, chief drainage engineer, Taleach hid to be accompanied by cer tified check for 2 per cent. of amount of pr posal, payable to W. W. Knott, State Trea

Canning Machinery.—Clarks Hill Canning Co., J. M. Rich, manager, Clarks Hill, S. C., wants canning outfit, including cans, labels,

-Bowdon Railway Co., J. L. Lovvon president. Bowdon, Ga., wants car

Cars.—Wm. H. Flaberty, 170 Hawthorne St., Brooklyn, N. Y., or Guild, Tenn., wants six standard-gauge flat cars, 60,000 pounds of lighter; small combination passenger and baggage car; 12 dump cars, 8 yards and over; also standard-gauge handcar.

Cement.-See "Building Supplies."

Church Furniture.-E. C. Shafer, Bruns wick, Md., wants prices on church furniture

Clayworking Machinery. — Brookhaven Pressed Brick & Manufacturing Co., Brookhaven, Miss., wants second-hand clay gath-

Coal .- W. Earle Hudmon, care of Ope Lumber Co., Opelika, Ala., wants prices on steam coal for oil mill, Hamilton, Tex.

Coffee Machinery.—Ferdinando Bounous, Turin, Italy, wants data on machinery for torrefying coffee.

Concrete Mixer.-Van Horn & Son, Box 571 Tulsa, Okla., want prices on concrete mixer Concrete Mixers. — Wm. H. Flaherty, 170. Hawthorne St., Brooklyn, N. Y., or Guild, Tenn., wants two two-yard Chicago cube concrete mixers; also two two-yard concrete mixers of other makes.

Crushing Machinery.—J. W. Stewart, East Stone Gap, Va., wants information and prices on machinery for crushing limestone for agricultural purposes.

Cranes.-Wm. H. Flaherty, 170 Hawth St., Brooklyn, N. Y., or Guild, Tenn., wants two 10 to 20-ton traveling cranes.

Culvert Construction.-Board of Public fairs, care of F. M. Oliver, clerk, Little Rock Ark., will receive bids until May 2 for con-struction of concrete culvert through Vance St., between 14th and 15th Sts.; plans and specifications on file in office of board.

Curbing.—Office of Commissioners District of Columbia, Washington, D. C. Proposals will be received until May 23 for furnishing District government during fiscal year begin District government during fiscal year begin-ning July 1, 1910, and ending June 30, 1911, with granite curbing. Forms of proposals, specifications and necessary information may be obtained upon application to property clerk, D. C., Room 220 District Bidg.; Cuno H. Rudolph, John A. Johnston, William V. son, Commissioners, D. C.

Distilling Machinery.—Adolph Kopp, 120 Liberty St., New York, wants addresses of manufacturers of apparatus to distill wood-liquor and tar from Mexican mangle tree, for manufacture of acetate of lime, wood-tar creosote and wood-tar pitch; factory at Vera Cruz, Mexico

Drainage.—W. L. Bower, ditch commis-sioner for McCracken county, Paducah, Ky., will open bids May 7 for construction of pub-

Drayton Mills; bids to be received on both wood and steel structure; J. W. Martin, clerk of Commission.

Brick Machinery. — Reynolds White Sand Co., 766½ State St., Bristol, Tenn., wants addresses of manufacturers of sand-brick machinery.

Blic drainage ditch from Husbands road, where crossed by Island Creek, to West Fork of Clark's River, distance of 16,680 feet; detailed specifications, plan and profile on file towns of the formation will be furnished by H. L. Harrison, engineer, or Mr. Bower.

Drills, etc.—Wm. H. Flaherty, 170 Haw thorne St., Brooklyn, N. Y., or Guild, Tenn. wants 12 rock drills, 2-inch and 3-inch holes also rock-drill sharpener.

Dredge and Buckets.-Wm. H. Flaherty, 170 Hawthorne St., Brooklyn, N. Y., or Gulid, Tenn., wants large ladder bucket elevator dredge and 7 1½-yard orange-peel buckets; also 8 2 to 2½-yard clamshell buckets.

Electric-light Plant -See "Water-works

Electric-light Plant, etc.-City of Graham Va., offers electric-light and railway fran-chise; will sell water-works in connection, or separately; population 5000. Address R. Kemp Morton

Electric-light System.—Office Constructing Quartermaster, Fort Dade, Egmont, Fla. Proposals will be received until May 20 for Proposals will be received until May 20 for construction of electric-lighting system, con-sisting of inside and outside wiring, trans-formers, engines and generators and addition to power-house at Fort Dade; plans, specifi-cations, etc., furnished on receipt deposit certified check for \$10.

Electrical Machinery. — N. W. Benefield, Bear Creek, Ala., wants data and prices on electrical machinery for water-po-trical plant. (See "Water-wheels.")

Electric Motors.-Fort Smith Couch & Bed ding Co., Fort Smith, Ark., motors. wants electric

Electric Motor.—Dr. Geo. Brown, care Sanitarium, R. F. D. No. 4, Atlanta, G Sanitarium, R. F. I wants electric motor.

Electric Plant.-R. H. Middleton, Clarks Hill. S. C., wants electric plant : probably for om residence.

Electric Transmission Line.-City of Syla Cauga, Ala., will receive sealed bids until May 2 for furnishing material to construct about 16 miles electric transmission line; also consider bids to furnish material and erect line; bids subject to rejection; sp cations and further information supplied by S. P. McDonald, Mayor.

Electrical Supplies. - See "Machine-shop

Electric-lighting System.—First Lieut. W E. McCleary, C. A. C., Constructing Quarter master, Fort Caswell, N. C., will receive bids until May 25 for installing electric-powe until May 25 for installing electric-powe plant and electric-lighting system; informa tion on application; plans and specification may be obtained on deposit of \$10.

Elevators.—Geo. R. Lombard, care of Lombard Iron Works & Supply Co., Augusta, Ga. wants prices on two hand elevators for lift ing to second-story, hardware wareh

Elevator.—Fort Smith Couch & Bedding Co., Fort Smith, Ark., wants freight elevator.

Emulsifying Machinery.-Dr. Geo. Brown. are of Sanitarium, R. F. D. No. 4, Atlanta, ia., wants emulsifying machinery.

Engine -Triple-State Electric Co., Charles ton, W. Va., wants prices, specifications, etc. on 30 to 50-horse-power second-hand engin for generator.

Engine.-See "Water Supply."

Engine.—Farmers' Ginsery, W. P. King, nanager, Clarks Hill, S. C., wants 35-horseower engine

Engraving Machinery, etc.—Joseph Spier 17 Battery Pl., New York, wants (for Eur pean parties) names of manufacturers (nachines for engraving name on metal.

Excelsior Machinery. — McKeel-Richards Hardware Co., 153 Main St., Washington, , wants information on excelsior machin

Fertilizer Manufacturers.-B. F. William Lehigh, Okla., wants addresses of fertilizer manufacturers.

Fire-department Equipment. - Sealed posals will be received by Robert Tait, City Treasurer, Montgomery, Ala., until June of for installation of two steam fire engines, Nes. 1 and 2; two combination chemical and lose auto cars, complete; 6000 feet 21/2-incl hose auto cars, complete; 6000 feet 2½-incl lubber-lined cotton hose, according to speci fication on file in office of City Engineer; certified check for 5 per cent. of amount of bid to accompany same; City Council re-serves right to reject bids.

Fire Equipment.—See "Hose Wagon."

Fertilizer Machinery. — B. F. Lipscomb, Montgomery, Ala., wants information on manufacture of fish scrap and cost of ma-terial; also prices on machinery for plant of 15 tons daily capacity.

Flooring.-See "Lumber."

Fuel-oil Equipment.-W. Earle Hudmon, care of Opelika Lumber Co., Opelika, Ala wants to correspond with manufacturers of o correspond with manufacturers of equipment for oil mill, Hamilton,

Gasoline Engine.—L. A. Dozier, manager ozier Mining Co., Elberton, Ga., wants gaso Gasoline Engine line engine.

Gasoline Engine.-See "Water-works."

Ginnery.-Farmers' Ginnery, Clarks Hill, ants 70-saw gin.

Grinding Mills.—L. A. Dozler, Dozler Mining Co., Elberton, Ga., wants mica-grinding

Glass Tiling, etc.—Theo. Engelhardt, Sar Angelo, Tex., wants prices on glass or til flooring and wainscoting for sanitarium oper ating-rooms. Granite-block Machinery.—John Dunn, Son & Co., 80 Wall St., New York, want addresses of manufacturers of machine to cut and dress granite street-paving blocks 5 or 6 inches wide by 9 or 10 inches long; machines for export to Argentine Republic, for use in quarries with electric-power available.

Hardwood. — Building Committee, Kapps Sigma House, Columbia, Mo., wants prices on red gum for finishing.

Hammers. — Wm. H. Flaherty, 170 Haw-thorne St., Brooklyn, N. Y., or Guild, Tenn., wants pile-driving hammer, steam, No. 1 and No. 2; No. 4 steam pile-driving hammer, and blacksmith steam ha

Heating Plant,-Albert L. Dunn, Box 657 Atlanta, Ga., wants price for 12-room dwelling.

Heating Plants,-Geo. R. Lombard, care of mbard Iron Works & Supply Co., Augu-, wants prices on heating systems ht-room brick house.

Heating Plant .- E. C. Shafer, Brunswick wants prices on heating plant for \$6000

Heating System.—J. R. Murran, Mayor and Board of Aidermen of Shelby, Miss., will eccive bids until May 10 for plumbing and heating proposed school; certified check for \$250, payable to the Mayor; plans and speci-fications on file with R. L. Coker, Town Clerk, or M. M. Alsop, architect, Itta Bena, Miss.

Heating System .- C. P. Walford, Clerk and pervisor of Richmond (Va.) School Board. supervisor of Richmond (va.) School Board, will receive bids until May 9 for heating and ventilating system for Hanover Ave. School; certified check for \$200, payable to order of School Board; plans, etc., on file at office of C. M. Robinson, architect, 922 East Main St.,

Heating, Ventilating.—Board of Education Oklahoma City, Okla., will receive sealed bids until May 9 for installation and completion of heating and ventilating system in following schools: Section 16, Township 1 North, Range 3 West, Capitol Hills, Putnan North, Range 3 West, Capitol Hills, Putnam Heights, and one at Kentucky and 9th Sts.; plans and specifications prepared by Layton, Smith & Hawk, Majestic Bidg., Oklahoma City; also Riverside school building, 421 West Maple St.; plans and specifications prepared by Van Meter & Schmitt, Room 823 Insurance Bidg., Oklahoma City; each bid must be accompanied by certified check for 10 per cent, of amount of bid, or bidder's bond, with approved securities; bids to be filed with Gus A. Elbow, secretary, Room 822 filed with Gus A. Elbow, secretary, Room 822 Insurance Bldg., Oklahoma City.

Hoist.-Van Horn & Son, Box 571, Tulsa Okla., want prices on steam hoist

Hoisting Engines.-Wm. II. Flaherty, 176 Hawthorne St., Brooklyn, N. Y., or Guild, Tenn., wants six hoisting engines, three-drum, 8x10 or 10x12, swinging gear.

Hose Wagon.-Captain Ocean Fire Co., Box 2, Washington, N. C., wants

Hydraulic Ram.-See "Water Supply."

Ice Machinery.-Rebuilt Machine & Wreck ng Co., Louisville, Ky., wants 10-ton ice ma-hine; give age, location and price. Kettles.—See "Paint Machinery, etc."

Labels.—See "Bottles, etc."

Lighting Fixtures, etc.—Albert L. Dunn, Box 657, Atlanta, Ga., wants prices on elec-tric-lighting fixtures and wiring.

Locomotives.-Wm. H. Flaherty, 170 Haw thorne St., Brooklyn, N. Y., or Guild, Tenn. wants standard-gauge loco otive, 6 who 20 to 30 tons: also two 10 to 20-ton dinkey otives, 36-inch gaug

Locomotives .- Bowdon Railway Co., J. L. Lovvorn, president, Bowdon, Ga., wants lo

Locomotive.-Louisville & Wadley Railroad Co., Wadley, Ga., contemplates purchase of second-hand 10-wheel locomotive for engine weight 45 to 50 tons, exclusive of tender 16 or 17x24 cylinders.

Lumber.-W. A. Lillier, Keyser, W. Va.,

wants prices on hemlock frame lumber, vellow pine flooring and siding.

tow pine nooring and siding.

Lumber.—W. Earle Hudmon, care of Opelika Lumber Co., Opelika, Ala., wants prices
from East Texas and West Louisiana mills
on lumber for oil mill, Hamilton, Tex.; will
send list of wants.

Machine-shop Equipment, etc. - Rickard supply Co., Lexington, S. C., wants quotaions on machine-shop equipment, dynamos electrical supplies, vulcanizers, general auto supplies and repairs for bollers and engines.

elo. Tex., wants prices on metal celling Metal-working Machinery.-Pittsburg Cornice & Roofing Co., McAlester, Okla., wants catalogues and prices on power brake, eight foot shears, circle mold machine, elbow ma-

Metal Celling .- Theo. Engelhardt, San An-

Mining Machinery.—L. A. Dozier, manager Dozier Mining Co., Elberton, Ga., wants miners' picks; also mills for mica grinding. Paving and Sewers.—City of Princeton, W. Va., will receive bids until June 8 for con-

Va., will receive bids until June 8 for construction of about three miles standard macadam, tar or asphalt macadam, including such patented pavements as bitulithic and tarvia, with concrete curb and gutter; also for construction of sanitary sewers, with small amount of 24-inch cast-iron pipe, and vitrified pipe of sizes 10, 12, 15, 18, 20, 22, 24, 27 and 30 inches, with necessary manholes and lampholes; each sewer bid to be accompanied by certified check for \$500 and paving bids by \$1000 certified check; successful bidder to sy certified check; successful bidder to furnish bond to 25 per cent. of contract price; right to reject bids reserved; plans and specifications with F. R. Van Antwerp, chief engineer, after May 25.

Mosaic Tile.-See "Tile."

Paint Machinery, etc.—Durlacque Manufac-turing Co., 2322 Olive St., St. Louis, Mo., wants machine for filtering varnishes and volatile liquids; also steam kettles for boil-ing volatile olis with gums.

Paper-box Machinery.—Frank Hall, Home-stead, N. J., wants information and prices on machine for folding and labeling four-fold ardboard package.

Ratchet Jacks.-Wm, H. Flaherty, 170 Hawthorne St., Brooklyn, N. Y., or Guild, Tenn. wants four 12-ton, two 20-ton and one 50-ton

Paving .- Street Committee, C. O. Gentry, hairman, Knoxville, Tenn., will receive blds until May 2 for paving Minnesota, Tennes-see and New York Aves., Burnside, Galbraith, Bragg, Johnson and other streets; work in-cludes macadamizing, grading, curbing and tiling; plans and specifications on file in office of Recorder of Lonsdale, R Station, Knoxville

Paving.—Trustees of Chauncey Brooks es-tate (Harry Fahnestock, Walter B. Brooks and Gaylord Brooks), 24 Commerce St., Bal-timore, Md., will receive bids until May 3 timore, Md., will receive bids until May 3 for grading, paving and curbing certain streets in Cloverdale; specifications on sile at office of trustees; bids to be made on blank forms to be obtained at above office and state price for each item; bidders to make personal examination of location of proposed work and of character of excavation required estreets are professor. tion required; streets are Brooks La., Chauncey Ave. and Linden Ave.

Paving Material.—City Commissioners, Gatveston, Tex., open bids at office of John D. Kelley, City Secretary, April 28 for furnishing 27,270 cubic yards of mudshell for surfacing streets in area covered by seawall Improvement fill; plans and specifications on file in office of A. T. Dickey, City Engineer; certified check, 5 per cent. of bid; V. E. Austin, Commissioner of Streets and Public Property.

Paving.-Baltimore (Md.) Board of Awards will receive bids until May 4 at office of J. Sewell Thomas, City Register, City Hall, to grade, curb and pave with vitrified blocks Canton St., from Fairmount Ave. to Fayette St.; with sheet asphalt, asphalt blocks, bitulitrhic or vitrified paving blocks Hollins St., litrhic or vitrified paving blocks Hollins St., from Wilkens St. to Calverton Rd.; Philadelphia Rd., from Luzerne St. to eastern city limits, and Fayette St., from Luzerne St. to Lakewood Ave.; specifications and proposal sheets will be furnished upon application to above office; B. T. Fendall, City Engineer.

Piping.-See "Water-works."

Piping.-H. C. Alford, Mayor, Riverside,

Ala., wants prices on terra-cotta piping for sewerage purposes. Give freight rates. Piling.—Wm. II. Flaherty, 170 Hawthorne St., Brooklyn, N. Y., or Guild, Tenn., wants 400 piles, 60 to 70 feet long and 10 inches at

Piping.-Cave Spring Planing Mill, Cave oring, Ga., wants prices on about 3000 fee e-inch new or second-hand piping for dry

Planing mill Machinery. - W. L. Davis, manager Tulsa Furniture Factory, Tulsa Okla., will open bids about May 1 on planing mill machinery ; cost about \$35,000

Planer.-Rebuilt Machine & Wrecking Co. Louisville, Ky., wants 48 or 60-inch-bed sec-ond-hand planer; with side heads preferred; also to be used as stone planer; give descrip-tion, location and photo.

Plaster.-See "Building Supplie

Plumbing - See "Heating System"

Plumbing.-Board of Education, Oklahom Plumbing.—Board of Education, Oklahoma City, Okla., will receive sealed proposals until May 9 for installation and completion of plumbing and sanitary system for follow-ing schools: Section 16, Township 11 North, Range 3 West, Capitol Hills, Putnam Heights, and one at Kentucky and 9th 8ts.; Heights, and one at Kentucky and 9th 81s.; plans and specifications prepared by Layton, Smith & Hawk, Majestic Bldg., Oklahoma City; each bid must be accompanied by cer-tified check for 10 per cent. of amount of bid, or bidder's bond, with approved sureties: hids to be filed with Gus A. Elbe etary, Ro m 899 Ins ance Bldg., Oklal

Press Cloth .- W. Earle Hudmon, care of Opelika Lumber Co., Opelika, Ala., wants prices on press cloth for oil mill, Hamilton.

Ralls.—Board of Control, State Peniten-tlary, W. W. Heard, president, will receive sealed bids until May 15 at office, Baton Rouge, La., for 2½ or 3 miles relaying or new American steel rails, 35 or 40 pounds, b. cars Angola, La.

Rails, etc.—Bowdon Railway Co., J. L. ovvorn, president, Bowdon, Ga., wants rails, frogs and rail plates

Rails, etc.—Wm. H. Flaherty, 170 Haw-thorne St., Brooklyn, N. Y., or Guild, Tenn., wants 5000 feet 60-pound rails; also six switches.

Rails.—Sabel Bros., 508 West Bay St., Jack sonville, Fla., want five miles each of 25 39, 35 and 40-pound steel relaying rail.

Railway Construction.—T. T. Adams Company, 709 Mutual Bldg., Richmond, Va., wants bids for constructing eight miles narrow gauge steam logging railway on Armstrong Creek, in McDowell county, North Carolina

Railway Equipment.—Louis Hart, Nocca-lula Railway, Light & Power Co., Gadsden, Ala., wants prices on two cars, 40 passenge 200 horse-power, four motors, two miles 5 pound rails, same of troley wire, insulator

Reinforcing Steel.-See "Building Mate-

Refrigerating Machinery.—B. Borden Com-nission Co., Little Rock, Ark., wants infor-mation and prices on new or second-hand small cold-storage plant.

Refrigerator.-Albert J. Dunn, Box 657, Atlanta, Ga., wants prices on refrigerator for 12-room residence.

Road Construction.-Trustees for Putn Road Construction.—Trustees for Putnam County Bonds, S. Worden, secretary, 722 Water St., Palatka, Fla., will open bids May 7 for construction of hard-surfaced road from bridge across St. John's River at Palatka to St. Johns county line, and from point on this road to San Mateo, Fla., 10 miles; certified check for \$100 to accompany with bid bidders on platan plans and specified. each bld : bidders can obtain plans and speci fications upon deposit of \$5 by applying to R. P. Ensey, County Engineer, Palatka.

Road Construction.-Road Directors of Al legany County, Clinton Uhl, chairman, Mou Savage, Md., will receive bids until May for grading and macadamizing one mile Corrigansville Rd., between Narrows and Corrigansville; proposals to be made on forms furnished by State Geological Survey Commission, to be obtained through its office mmission, to be obtained through its office Baltimore, Md.; plans and specifications file with Road Directors at Cumberland, Md.: steam roller and stone crusher will be furnished contractor by county under conditions named in contract and specifications; each bid to be accompanied by certified check for \$200.

Road Construction.—Bids will be Road Construction.—Bids will be received at Clerk's office of Henry county, Martinsville, Va., until May 5 for construction of macadam road in Henry county; plans and specifications on file in Clerk's office, Martinsville, and of State Highway Commissioner, Richmond, Va.; engineer will be in Martinsville on April 26 to go over road with Martinsville on April 25 to go over road with rospective bidders; certified check for \$206 o accompany each bid; specifications fur-ultshed on application to State Highway 'commissioner, P. St. J. Wilson, Richmond, Va. Road Roller.—Box 546, Macon, Ga., wants

three to four-ton tandem second-hand steam oller for asphalt paving; give price and

Road Construction.-Board of Revenue of unty, Rirmingham, Ala., will open bids April 29 for slagging and cherting four miles of Wylam and Elbo road; certified check for \$200 to accompany each bld. For further information address J. W. Gwin, County Engineer, 103 Courthouse, Birming-

Road Construction.-Park C Road Construction.—Park Commissioners, Paul M. Pope, secretary, Oklahoma City, Okla., will open bids May 2 for grading and otherwise improving center driveway of Grand Boulevard from 10th to 18th St. and from 26th St. north to Station 103; plans, specifications and profiles on file in office of chief engineer of Park Commissioners, 301 (Str. Hall, hidders to deport each or carticity). City Hall; bidders to deposit cash or certifled check for 3 per cent. of bid.

Rolling Partitions .- Van Horn & Son, Box 571, Tulsa, Okla., want prices on rolling par-tions for \$50,000 edifice.

Roofing.-W. Earle Hudmon, care of Ope ilka Lumber Co., Opelika, Ala., wants prices on composition and metal roofing and siding for oil mill at Hamilton, Tex.

Roofing.-See "Building Supplies.

Sand Machinery.—Burke-Andrus Sand Co., foot of H st., Fort Smith, Ark., wants ma-chinery for drying and screening sand for

Safe, etc.-H. J. Nettles, Farmers and Mer. chants' Bank, Hartsville, S. C., wants prices on safe, vault and bank fixtures.

Sawmill.—Wm. H. Flaherty, 170 Hawthorne St., Brooklyn, N. Y., or Gulld, Tenn., wants sawmill, without boller, to saw 24-inch logs.

Sawmill Machinery.—Barber Lumber Co Hartburg, Tex., wants steam nigger an loader; also carriage and head block.

Screens,-See "Sand Machinery."

Sewer Construction.-See "Water-works

Sewer Construction.—City of Princetou, W. Va., F. R. Van Antwerp, chief engineer, will receive bids until June 8 for construc-tion of sanitary sewers. (See "Paving and Sewers.")

Sewer Construction. — T. L. Chisholm Mayor, and Board of Aldermen, Sanford, N will open bids May 17 for construction of verage system; will consist of seven mile ppe sewer from 8 to 20 Inches diameter appurtenances, and concrete settling plans and specifications on file in of f Mayor, and copies of specifications sals, etc., may be obtained from Gilber: White, engineer, Durham, N. C.; certified

Sewer Construction .- D. C. Fenstermaker. Tulsa, Okla., will receive bids until May for construction of storm sewer across Bo ton Ave., between 15th and 16th Sts.; als fon Ave., between 15th and 16th Sts.; also for construction of storm sewer south of 12th St. and west of Cincinnati Ave., across Block 204, Old Town and Woodlawn Addi-tion; plans, profiles and specifications on file with D. C. Fenstermaker, City Engineer; certified check 5 per cent. of bid.

Sewer Construction.—City of Madill, Okla., will let contract May 9 for \$20,000 sewer system; plans by Southwestern Engineering Co., Oklahoma City, Okla.; plans and speci-fications on file at office of J. S. Dillingham,

City Clerk.

Sewer Construction. — City Council, St. Petersburg, Fla., will receive bids until May 5 for construction of sewer system; No. 9, 234 feet of 6-inch pipe; No. 10, 720 feet 6-inch pipe; No. 11, 280 feet of 10-inch pipe and 1250 feet of 6-inch pipe; No. 12, 6862 feet of 6-inch pipe and 1325 feet of feet of 8-inch pipe and 1325 feet of iron pipe, 8 inches; work to be constructed under supervision of sanitary committee and City Engineer in accordance with plans and specifications in office of with plans and specifications in office of City Clerk; each bid on Nos. 9, 10 and 11 to cert, each bid on Nos. 8, by and it to be accompanied by certified check of 10 per cent. of bid, and No. 12 by check of 5 per cent. of bid; W. F. Divine, City Clerk.

Sewer Construction.—Trustees of Chauncey Brooks estate (Harry Fahnestock, Walter B Brooks and Gaylord Brooks), 24 Com St., Baltimore, Md., will open bids May 3 for laying sewers and storm-water drains in "Cloverdale," according to specifications at office of trustees; bids to be made on blank forms to be had at said office, and give price for each item; bidders to make personal ex-amination of location of proposed work and of character of excavation required; ap-proximate quantities sewers for house drain-age, 6000 linear feet of terra-cotta pipe, with manhole covers and frames, manhole steps, brick masonry, etc., as specified; storm-water drains, 3050 linear feet of terra-cotta pipe, with necessary manholes, connections, con-crete inlets, covers, etc., as specified.

Sheet-metal Work .- See "Building Mate-

Showcases.-See "Store Fixtures."

Skidders. - J. H. Macleary, Suffolk, Va., cants two double-drum friction skidding ma-

chines, with boiler and without boiler; 8x10-inch cylinder and 7x10-inch cylinder; quote price f. o. b., giving condition and time of

Skip Boxes.-Wm. H. Flaherty, 170 Haw thorne St., Brooklyn, N. Y., or Guild, Tenn. wants 12 two to four-yard iron skip boxes (stone and dirt).

Steam Shovel.-Wm. II. Flaherty, 170 Haw thorne St., Brooklyn, N. Y., or Guild, Tewants 50 to 70-ton steam shovel.

Steel Sheds.-Bids will be received by Board of Commissioners of port of New Or leans, La., Hugh McCloskey, president, at their office, 601-602 Hibernia Bank & Trust Bldg., until May 20 for fabrication and erection of structural steel and cast iron fo any or all of following sheds: Eighth-Har mony St. shed No. 2; 6th St. shed; 3d St shed; Soraparu St. shed; Branch M. Kin; shed; deposit \$1000, cash or certified check plans, specifications, proposal forms, etc., prepared by J. F. Coleman & Co., engineers, are on file at office of engineer, A. C. Bell., 666 Hibernia Bank & Trust Co. Bidgs., New Orleans, La., by whom full sets will be furnished on deposit of \$25.

Store Fixtures.-Chas. Ringe, homa City Development Co., 14 Ziegler Bidg. Oklahoma City, Okla., wants addresses of manufacturers of showcases and fixtures.

Steel Laths, etc.—Theo, Engelhardt, San Angelo, Tex., wants prices on wire and steel laths for plastering.

Steam Cylinders. - Laurinburg Oil Co. Laurinburg, N. C., wants to correspond with manufacturers of steam cylinders for cotto

Tanks.—Wm. H. Flaherty, 170 Hawthorne St., Brooklyn, N. Y., or Guild, Tenn., wants four 100-pound air-receiver tanks, 4 to 8 feet diameter, 10 to 30 feet long.

Terra-cotta Piping.-See "Piping."

Terra-cotta.-Paine & Jones, 8201/4 Gar Ave. Fort Smith, Ark., want prices on terra-for \$75,000 school building.

Tile.—Southern Tile & Stone Co., 63 Central Ave., Atlanta, Ga., wants to correspond with manufacturers of mosaic and other tile, with view to representation.

Tools .- J. W. Babbett, Erin, Tenn., to correspond relative to placing order for manufacture of patent wire stretcher, to be made of soft steel; weighs 10 pounds.

Vulcanizing Machinery. - See "Machine shop Equipment, etc.

Water-distributing System.—Bids will b received at office of Capt. David L. Stone V. S. A., Constructing Quartermaster, Fort Sill, Okla., until May 10 for construction of water-distributing system; specifications, blueprints and further information furnished on application to Captain Stone; certified check for \$5 required to secure plans, etc.

Water-distributing System.—Bids will be eccived at office of George Vidmer, Captain Cavalry, Constructing Quartermaster t Oglethorpe, Ga., until May 9 for construction of water-distributing system for se during coming maneuvers; full informa tion, necessary blank forms, etc., furnished upon application to Captain Vidmer.

Water Supply.-L. G. Bell, Clarks Hill S. wants ram or engine for water ck farm

Supply .- D. W. Sharpton, Water Supply.—D. W. Sharpton, Clarks IIII, S. C., wants ram or engine for resi-ence water supply.

Water-wheels.—N. W. Benefield, Bear Creek, Ala., wants data and prices on water-wheels and information on power developing.

Water-works.—Water Commission, William Wilcox, C.E., general manager, Meridian, Miss., will open bids May 3 for construction of 8500 feet of 24-inch reinforced concrete conduit; certified check for 5 per cent. of bid; specifications may be obtained from Mr. Wilcox, or C. C. Dunn, president of commission. (Date postponed from April 5, as lately stated.)

Water-works. - C. E. Murray, Decherd, Tenn., wants prices on pump; 3000 gallous per hour capacity; 75 feet elevation and 75 feet suction from well; gasoline engine; also piping, about three inch and less.

Water-works.-City of Fort Smith, Ark. V. J. Johnston, Mayor, will soon receive bids on extension to water-works system; bids on complete work or separate bids will be taken on pipe and material; 6 or 24-inch pipe; also 50 to 100 hydrants and necessary specials.

Water-works.—Riverside City Development

'o., II. C. Alford, 510 Empire Bldg., Birming ham, Ala., will open bids about May 26 for construction of water-works system; reserto have 500 gallons per minute capac will erect buildings and install pumps ncrete or sheet-iron standpipe, bollers, concrete etc.; cost \$15,000.

Water-works.-King Mercantile Co., Clarks Hill, S. C., wants water-works to supply water from spring nearby to premises, store garden, lawn and to Farmers' Ginner mum, 2000 gallons daily; ram, win gasoline engine required. ers' Ginnery;

Water-works, etc.—Bids will be received by Mountain View, Okla., until May 4 for cast-iron pipe and specials, hydrants and valves, boilers, heater, engine, feed-water pumps generators, exciter and switchboard, series generators, exerter and switchboard, series are and tungsten street lights, pole-line equipment, sewer pipe, manhole castings, siphons, cement, brick and sand necessary for construction of water, electric-light and systems. Specifications on file with O'Neil Engineering Co., Dallas, Tex., engi

Water-works,-City of Graham, Va., will water-works in connection with electric-light and railway franchise or separately. Address R. Kemp Morton. (See "Electric-light Plant, etc.")

Windmill.-See "Water-works."

Woodworking Machinery.—B. A. Irby, 502 East 7th St., Charlotte, N. C., wants lumber manufacturing machinery.

INDUSTRIAL NEWS OF INTEREST

The Wisconsin Engine Co., Corliss, Wis. unounces that it has appointed Benjamir Hough its Boston sales manager, will represent the company in the sale of its icts in the New England States. Mr. h's offices will be in the Oliver Bidg., Boston, Mass.

Contract for Mattress

Contract for supplying 10,000 mattresses has been awarded by the Quartermaster of the U.S. Army to the Little Rock (Ark.) Mattress Co. at \$36,000. The contract was awarded at St. Louis, and is said to be the first of its kind secured by a Southern fac

Wants Power Development Engineer

N. W. Benefield of Bear Creek, Ala., is in terested in a plan to develop a water-power transmitting electricity, and is prepared engage an engineer for the proposition. also wants data and prices on dam construction, water-wheels, electrical genera

Wants Agent for Electrical Supplies

The Heany Fireproof Wire Co., 25 Broad t., New York, manufacturer of the Heany pure asbestos insulated wires, wants to cure agents in the Southern States. pany is particularly interested at pres-in having an agent located at Atlanta oughly acquainted with the requirements of the leading users of electric power, in-cluding manufacturers of motors, transform-ers, etc., and electric traction and lighting

ompanies. The company will be glad to lear from reliable parties in a position to take up the proposition

Galena Signal Oil Co. in Atlanta.

The Southern-sales office of the Galena Signal Oil Co., which has been in Wilmington, N. C., has been moved to Atlanta, Ga., where it will be located in the Forsyth Building. This office covers that territory extending from North Carolina to Texas, and is in charge of George I. Morton Southern is in charge of George L. Morton, Southern ales manager

Wm. M. Brown's New Connection.

Wm. M. Brown, formerly corresponding ecretary of the Clinchfield Coal Corporation, has resigned his position for that company and has associated himself with the firm of F. G. Hatton & Co. of Roanoke, Va. This company is selling agent for coal and coke, and its field extends throughout the South.

Northampton Portland Cement Co.

In a reference in this column last week to the Northampton Portland Cement Co., general offices, 30 Church St., New York, it was erroneously stated that W. C. Edwards will have charge of the sales department. ould have read W. C. Webster, Mr. Webster is vice-president and treasur Northampton Portland Cement Co.

Secures Larger Offices

The Des Moines Bridge & Iron Co., general ffices, Des Moines, Ia., announces that its littsburg offices are now located in more

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commodious rooms at 801-806 Curry Bldg., Fourth Ave. and Ross St. This company manufactures and erects bridges, structural steel, water towers, mill buildings, tanks and plate work, etc.

Secures More Floor Spa-

The Alberger Condenser Co. and the Alberger Pump Co. announce the removal of their offices from 95 Liberty St. to the West Street Bidg., 140 Cedar St., New York. In their new offices these companies have 4890 square feet of floor space on one floor ereas in their former offices they occup o square feet, distributed on two floors

Some Browning Contracts.

Browning Manufacturing Co., Cleveland, O., with works at Mansfield, O., has completed the erection of two 1½-yard scraper-bucket excavators with 75-foot boom at points on the New York barge canal, and one of the same size for placer mining in Arizona. The company has also about completed a two-yard machine for Irrigation work in Nebraska.

A Contract for Electrical Equipment.

The Carolina Electrical Co., 110 Fayette-ville St., Raleigh, N. C., has been awarded a contract to supply the electrical equipment for the engineering building to be erected for the North Carolina Agricultural and Me to the North Caronna Agricultural and Me chanical College. This company does engi-peering and contracting work, handles sup-plies, and installs electric-light, telephone and annunclator equipments, etc.

Cannery for Sale.

Cannery for Sale.

Located at Chnse City, Vn., and modern in its equipment, a cannery will be offered at trustees' sale on May 11. This plant has a capacity of about 10,000 cans per day, and is ready for operation. The sale includes site 80 x 210 feet. Details may be obtained from W. Frank Thomas, Westminster, Md., and R. D. Patterson, Chase City, Va., receivers.

With Lima Locomotive & Machine Co.

A. E. Rosenthal announces that he has ar A. E. Rosenthal announces that he has arranged a connection with the Lima Locomotive & Machine Co., Lima, O., and will establish offices for the company at 1122 and 1123 McCormick Bidg., Chicago, on May 1. Mr. Rosenthal will act as Western representative and will have charge of the territory tween Pittsburg and Denver for the sale locomotives of various sizes.

Will Sell Corliss Safes.

Attention is directed to the sale of three Attention is directed to the sale of three corliss safes, as referred to in the announcement of J. Henry Miller, Dover St., Baltimore, Md., who offers one large safe, having a compartment 62 inches deep, with three independent lower compartments, and two other safes, having three independent com-partments, each 19½ inches deep. These safes have been inspected annually and are claimed to be in first-class condition.

Big Contract for Roofing.

The Bartholomew Roofing Co., felt and gravel roofing, 410 2d 8t., Memphis, Tenn., has contract from the Turner-Hartwell Docks Co., Mobile, Ala., for 200,000 square feet of Barrett specification felt and gravel roofing, to be applied to new million-dollar docks in process of construction at Mobile. docks in process of construction at Mobile. The Bartholomew company has contracted for the materials.

Contract for Electrical Equipment.

It is announced that the American Steel Wire Co., Chicago, New York and other & Wire Co., Chicago, New York and other cities, has awarded contracts to the West-inghouse Electric & Manufacturing Co., Pittsburg, for electrical equipment for the new wire plant to be erected near Wylam, Ala. All the large and small motors required. said to be included. Gas engines using blast-furnace gas will be installed to operate the electric generators.

A New Real Estate Firm.

A New Real Estate Firm.

Organization of a new firm for dealing in real estate has been effected by J. W. Nihiser and W. M. Baechtel of Hagerstown, Md. This company will be known as the J. W. Nihiser Realty Co., and its offices will be located at 204 and 305 First National Bank Bidg., Hagerstown, Md. Its members have had a number of years' experience in handling real estate, including coal and timber lands, local properties, etc. lands, local properties, etc.

Equipment for Rod Mill.

In connection with the erection of a rod mill at Birmingham, Ala., by the American Steel & Wire Co., Chicago, New York and other cities, it is announced that the William Tod Company, Youngstown, O., has been awarded contracts for the construction of a

portion of the machinery needed for the plant. The William Tod Company manu-factures engines of various kinds, including blowing, reversing, mill, pumping, Corliss and gas engines, etc.

Secures Two Important Orders

Among important orders recently received Among important orders recently received by the Schroeder Headlight Co., Evansville, Ind., is one to furnish the electric headlight equipments that will be required on 78 loco-motives which the Buldwin Locomotive Works of Philadelphia is constructing for the Southern Railway. The Schroeder Head-light Co. has also secured a contract to nake 95 oil headlights required for Bulti-more & Ohio locomotives. more & Ohio locomotives.

Moves Into Larger Building.

In order to facilitate its sales and expedite its deliveries, the Tower-Binford Electric & Manufacturing Co. has moved to a larger building at No. 5 Governor street, Richmond. Va. This structure contains about 30,000 square feet of floor space for the accommodation of the company's electrical jobbing trade, and the products which may be supplied are standard materials for use in all classes of electrical installations

Cutler Mail Chute News.

Cutler Mail Chute News.

The Cutler Mail Chute Co., Cutler Bidg., Rechester, N. Y., announces the following changes: Office in Times Bidg., New York, discontinued; construction and repair shop in charge of G. C. Emrich, superintendent of construction, at 27 Thames St., New York, the telephone number being 5957 Cortlandt, and this is the company's only New York address; manufacture of "automatic" chutes discontinued; Frank E. Anderson is no lenger connected with the company. lenger connected with the company.

Will Remove General Sales Office

The T. L. Smith Company, successor to Contractors' Supply & Equipment Co., Old Colony Bldg., Chicago, announces that on May 1 its general sales offices will be moved to the Majestic Bldg., Milwaukee, Wis. It to the Majestic Bidg., Milwaukee, Wis. It will retain a branch office at 395 Old Colony Bidg., Chicago, with A. L. Tucker, district manager, in charge. The T. L. Smith Com-pany manufactures the Smith concrete mixer, Symons crushers, contractors' equipment,

Charles F. Abbott in the South.

Charles F. Abbott, general sales manage for J. A. & W. Bird & Co. of Boston, manu facturers of Rex Flintkote rooting and other facturers of Rex Flintkote roofing and other well-known products, is making a tour of inspection of their Southern branches and looking over the field in general. Mr. Ab-bott is a young man, who won his spurs in the selling field, having been for several years the manager of J. A. & W. Bird & Co.'s branch house at New Orleans. He reports a large spring business and says Rex Flintkote roofing will establish a new high sales rec-ord during 1910. ord during 1910.

Big Brick Plant Completed.

The plant of the Carolina Brick & Tile Co. is about completed and has a daily capacity of 30,000 bricks. It includes 22 drying kilns. shed, mixing-room, boiler-room, etc., for a daily output of 30,000 bricks. This product will be unit brick, made of crushed stone and cement, and claimed to be most eco nomical for construction purposes. Considerable quantities of the type have been used in the construction of power plans by the Southern Power Co. of Charlotte, N. C. The brick plant is located at Greenville, S. C. Faul Chattam is president of the company.

Pittsburg Testing Laboratory

The Pittsburg Testing Laboratory, gene offices at 325 Water St., Pittsburg, Pa., a nounces that (on account of the ra-growth of its cement-testing department) growth of its cement-testing department) it has established cement inhoratories with full facilities, in charge of competent ce-ment chemists and cement testers, at No. 51 Omaha Bidg., Chicago, and at 308-10 Practo-rian Bidg., Dallas, Tex. The Laboratory also has cement laboratories at Easton, Pa.: has cement taboratories at Easton, Pa.: Pittsburg, Cincinnati, Birmingham and San Francisco, as well as cement chemists loca-ted at many of the different cement mills. It is prepared to test cement in the laboratories or to make mill inspection of cement at any of the leading cement mills.

Kerr Turbines in Foreign Countries.

As an indication of its widely developing trade, not only in this but in foreign countries, the Kerr Turbine Co. of Wellsville, N. Y., has arranged for representation in two more American and three foreign countries. The United Iron Works will represent the company in the sale of its products at San Francisco and Oakland, Cal., while the Economical Gas Appliance Construction Co., Ltd., will represent it in London, J. H. Rioomberg in Mexico City and A. F. Partidge in Sidney, N. S. W. With the completion of these arrangements the Kerr Turbine Co. has active representatives in 25 cities. It has an extensive European trade in its highly units of small size one extensive in the content of the content in the content turbine units of small size, one customer England having bought seven on rep

Martin Grates in the South.

As emphasizing the strength of its position in the South, the Martin Grate Co., Fisher Bidg., Chicago, has received a number of let-ters from Southern companies aftesting the merits of the Martin products. This com-pany manufactures shaking grates, etc., and pany manufactures snaking grates, etc., an among the testimonials which it has re-ceived are letters from the W. A. Handley Manufacturing Co., Roanoke, Ala.; W. E King, Jr., engineer, Memphis, Tenn.; Per kins Oil Co., Memphis, Tenn.; Brookhave (Miss.) Cotton Oil & Fertilizer Co.: A. Bald (Miss.) Cotton Oil & Fertilizer Co.; A. Baldwin & Co., New Orleans; Del Río (Tex.) Electric Light & Ice Co.; El Paso (Tex.) Ics & Refrigerator Co.; Cassety Oil Co., Nashville, Tenn.; Tupelo (Miss.) Oil & Ice Co.; J. Allen Smith & Co., Nashville, Tenn.; Birmingham (Ala.) Machine & Fo Meridian (Miss.) Woman's C

Increasing Its Facilities.

About two years ago the French Oil Mill Machinery Co., Piqua, O., erected an addi-tion to its plant and installed machine tools that about doubled its capacity. These in-creased facilities have not met the requirements of the company's growing business, and two additional buildings are now in process of erection. One of these is two stories in height, about 50x100 feet, which will be used principally as a stockroom. The other building is an increase in foundry companies being a structure 25x150 feet. equipment, being a structure 75x150 feet.

The erection of this building will be followed by another to be erected at one end of the new foundry, and will occupy space. new used by the blacksmith shop, which will he moved. A switch from the Pennsylvania Railroad to and through the main building will also be constructed. The French Oil Mill Machinery Co. was organized in 1900, and A. W. French, C.E., has been president and general manager from its inception With a practical oil-mill experience he was combled to put into effect numerous ideas relative to machinery, which have been pat ented in the United States and foreign coun The company manufactures complete eculoments for oil mills, etc

Harrisburg Foundry and Machine Works,

Works.

The Harrisburg Foundry and Machine Works, builder of the Fleming-Harrisburg engines, Harrisburg, Pa., announces the foliowing changes: F. W. Jackson, formerly manager of Baltimore district, appointed manager for Chicago district, with headquarters in Marquette Bldg., Chicago; he succeeds A. M. Morse, resigned, and with him will be associated Walter Bird, who continues as Chicago district engineer; R. B. Hall, Jr., appointed manager for Atlanta continues as Chicago district engineer; R. B. Hall, Jr., appointed manager for Atlanta district, with headquarters in Empire Bidg., succeeding Higes & Hall, Mr. Higes having been appointed manager for 8t. Louis district; Waiter Castanedo appointed manager for New Orleans district, with headquarters at 1103 Hennen Bidg., New Orleans; Mr. Castanedo succeeds Glenny & Castanedo, and with him will be associated R. M. Doberty, who continues as New Orleans sistent engineer; C. H. Israel, formerly assistant engineer; C. H. Israel, formerly assistant engineer. who continues as New Orleans district engineer; C. H. Israel, formerly assistant engineer at Harrisburg, appointed manager for Enlitmore district, with headquarters at 1415 Continental Trust Bidg., Baltimore; George M. Higes, formerly manager for Atlanta district, appointed manager for St. Louis district, with headquarters at 1415 Chemical Bidg., St. Louis; Mr. lilges succeeds Geo. D. Pogue, and with him will be associated P. A. Haradon, who continues as St. Louis district

TRADE LITERATURE.

The Edison Aggregate.

The Edison Aggregate for April is now being circulated. This is an illustrated monthly publication issued by the Edison I ortland Cement Co., New Village, N. J., in the interest of concrete construction.

When Comfort Means Efficiency.

The employment of electric fans in shops and offices is claimed to be not only a mat-ter of health and comfort, but means actual increase in production on the part of em-ployes. In the home, also, the electric fan is becoming almost a necessity during the summer months, and its uses are many and varied. A booklet issued by the Robbins & Myers Company, Springfield, O., Illustrates and describes this company's "Standard" fans, which are adapted for use in offices, factories, residences and other places where fans may be used,

Enclid Cranes.

A catalogue issued by the Euclid Crane & Hoist Co., Euclid, Ohio, illustrates and de-scribes Euclid cranes and kindred appliances as manufactured by this company. Among its products are electric and hand-power traveling cranes, electric holsts and jib cranes, overhead troiley systems and troileys, hoisting and bucket operating machinery for power plants, docks, etc.

Penberthy Engineer and Fireman.

A number of articles of inter attorner of articles of interest and infor-nation may be found in the Penberthy En-fueer and Fireman for April, a publication usued in the interest of steam users. This ragazine is published by the Penberthy Piess, 372 Hoiden Ave., Detroit, Mich., and contains selections from several standard

Issues a Card Calendar.

A card calendar for April, May and June, presenting a picture entitled "The Secret," is being distributed by the Stark Rolling Mill Co., Canton, O. This company manufactures the well-known "Toncan" metal rust-resisting sheets in black and galvanized; alumaloyd sheets, which is a special analysis sheet conted with aluminum-alloyed metal, and other products. other products.

The "Little Big Engine" Story.

Literature telling the "Little Big Engine" story has been lesued by the Elyria Gas Power Co., Elyria, Ohio. This company manufacturers the "Little Big" engine, and the literature referred to briefly explains the points of merit in the horizontal as compared with vertical engines, and refers to the split-unit idea. It also describes the suction gas producer. suction gas producer

"Chloride Accumulator" and "Exide" Battery.

The installation of the "Chloride Accumulator" and "Exide" buttery in yachts and power boats is described and illustrated in bulletin No. 122 based by the Electric Storage Buttery Co., general offices and plant, Allegheny Ave. and 19th St., Philadelphia. This company installs "Chloride accumulators" and "Exide" battery for the purpose of storing current for light and other uses.

The "Banner" Girl.

Miss Mazda, the "Banner" girl, is journeying from the offices of the Banner Electric Co. to the offices of that company's customers and friends. She comes in the form of a handsome colored lithograph suitable for hanging. Her purpose is to remind people that the Banner Electric Co. of Youngstown, O., is a leading manufacturer of incandes cent electric lamps and prepared to meet the demands of the South and other parts of

"Just a Song at Twilight."

A reproduction of the painting, "Just a Song at Twilight," by Albert Herter, A. N. A., adorns an attractive art card which is being distributed by the Dahistrom Metallic Poor Co., Jamestown, N. Y. This company manufactures metallic partitions, doors, cold drawn steel picture moidings and trim, cold drawn steel picture moidings and trim, and the articles have been investigated in etc., and its products have been installed in many pro ent structures throughout the

"Thor" Pneumatic Tools.

Circular M, Illustrating and describing Thor" pneumatic tools, has been issued by the Independent Pneumatic Tool Co., 1307 Michigan Ave., Chicago. This company man ufactures the "Thor" products, which in clude piston air drills, breast and screw feed crute pinton air artiis, breast and serew feed drills; chipping, calking and five beading hammers; reversible compound (slow speed) piston air drills, riveting hammers, reversi ble wood-boring machines, grinding machines, etc.

Branch Exchange Switchboards.

Bulletin No. 1006, Issued by the Western Electric Co. of New York and other cities, illustrates and describes branch exchange equipments which have been designed for use in business establishments, factories, schools or other places where a modern private telephone system is required. In the development of such equipments the Western Electric Co. has given much, thus and enters. tric Co. has given much time and er toward perfecting telephone apparatus business and other kinds of service.

Lehigh Portland Cement.

pamphlet illustrating and describing in all the new drydock recently completed at

the yards of the Toledo (Ohio) Shipbuilding Co. has been issued by the Lebigh Portland Cement Co., Allentown, Pa. This dock is 100 Cement Co., Allentown, Pa. This dock is 100 feet wide and 700 feet long, 15,000 barrels of Lehigh Portland cement being used in its construction. In addition to a view of the dock, the pamphlet also presents illustrations of preminent bridge and other construction in which Lehigh Portland cement was used.

A Useful Memorandum Book.

The Pratt Engineering & Machine Co. of Atianta, engineer, founder and machinist, manufacturer of the well-known Imperial cane-sugar machinery pumps, sulphuric-acid plants, etc., is distributing a useful and attractive loose-leaf Russia-leather memoran dum book, with the name of the recipient stamped in gold on the cover. The book contains several pages of useful tables and a supply of loose leaves, which the company offers to replace when the first supply is ex-

Ornamental Iron and Wire Products

Users and handlers of ornamental from and wire products will be interested in a catalogue recently Issued by the Buckeye Wire and Iron Works, W. G. Rich, proprietor, office and plant, Main and 11th Sts., This catalogue is illustrated and contains price-lists, together with descrip-tive data and tables furnishing information relative to the products of the company which include iron and wire fences, window gs, office railing, wire cages, elevator guards, wire stall guards, counter and floor

From a Virginia Company.

In order to center interest and attention in its company and in the city where it has its main plant and general office, the Virginia Bridge & Iron Co. of Roanoke has de vised an attractive little stamp, somewhat on the order of a postage stamp. The company intends to stamp all its letters, enveletc. This stamp is attractively de-d, the centerpiece being a large oak and below is given the population of oke in 1885 and 1910, indicating that just as the oak tree has grown from a so has Roanoke advanced from a small town to a growing city.

"Mazda" Incandescent Street Lighting.

In the preparation of Bulletin 7-A on street lighting by means of "Madza" lamps, issued by the engineering department of the National Electric Lamp Association, 411 Hough Ave., Cleveland, Ohio, care has been taken to outline the historical development of series incandescent lighting, to furnish data the illuminating and electrical equip-nts for the "Mazda" street series lamp and to give practical suggestions for stalling such equipments. The informa contained in the bulletin should be of y to all concerned in the problem of better street illumination

The Products of Kennicott.

From the manufacture of water softener exclusively, the products of Kennicott no include filters, standpipes, steel tanks at towers for water storage, smokestacks towers for water storage, smokesticks and breechings, horizontal return tubular and water-tube boilers, wash-out systems for locomotive boilers, car tanks, tender tanks, track troughs, steel plate and structural work, etc. They are manufactured by the Kennicott Water Softener Co., main office, laboratories and plant, Chicago Heights, III., and are illustrated and described in a sec tional catalogue which the company has is hued. Each product is treated separately and for the sake of convenience the company will supply prospective purchasers with only such sections as relate to the devices in which they are directly interested.

Corrugated Bar Co.'s Slide Rule.

A pocket slide rule which should be of A pocket side rule which should be value to architects, engineers, contractors and others is presented by the Corrugated Bar Co., Bank of Commerce Bldg., St. Louis. This company manufactures round and square corrugated bars for concrete reinforcement purposes, and the rule in question is intended to determine the square inches of is intended to determine the square inches of steel per foot for sizes of bars and spacing shown. It consists of a stiff white card-board which slides into a celluloid case, both the case and board being so tabulated as to easily supply the information required. easily supply the information required. In addition to its round and square corrugated steel bars for concrete reinforcement, the Corrugated Bar Co. also manufactures the Corrbar beam unit, a shop fabricated beam and girder reinforcement, and other prod-

Highway Improvement News.

oads is a subject to which n s being given nowadays. subject which has prompted the Tennessee Metal Culvert Co. of Nashville to begin the needs thereto, of Assawhile to begin the publication of "Highway Improvement News." This will be issued in the interest of good roads, and will present authoritative information on road materials and construcespecially acquainting readers constru ction, and particularly with the merits of the Watson patent corrugated culvert, made of American ingot iron by the company named. The first issue includes articles on good roads in the South and in oregon, highway commission work in California, iron that will not rust, a paying investment in Tennessee, the world's finest road, the National Government as a factor in highway development, etc.

Water Purification for Steam Users.

"Water Purification Facts for Steam Users" is the subject of a pamphlet by J. C. William Greth, manager of the water-purify-ing department of William B. Scalfe & Sons manufacturer of water softening and Co., manufacturer of water softening and purifying systems, water filters, etc., 22 First Ave., Pittsburg, Pa. This publication treats of the function of the steam boiler and emphasizes the necessity of removing everything from feed water that would interfere with the transfer of heat from fuel to the water, and thereby affect the efficiency of the entire power plant. Attention is di-rected to the organic and inorganic impuri-ties in water, as well as to the disadvantages entailed by using water which has not been softened and purified before allowing it to enter the boiler. On the other hand, it force bly presents some of the many advantages derived by the use of a good purifying sys tem, pointing out that if a water has been orly softened there will be no scales ned in the heaters, pumps, pipe lines of

A Machinery and Supply Catalogue

In the compilation of its catalogue No. 50 the H. Channon Company, Market and Ran-dolph Sts., Chicago, has exercised great care, and deems this publication the best and most complete catalogue it has ever issued of 952 pages, and is complete in detail and so arranged and classified as to cover in a brief and comprehensive manner the vario lines of machinery and supplies which the company handles. All lists and tables have been revised up to date of going to press and have been so arranged and tabulated as to make them easily read and quickly under stood. Care has been used to make the index complete for ready reference and to classify each line of goods in the most ap-propriate grouping. The H. Channon Com-pany manufactures and distributes machinery and general supplies for steam and elec tric raliroads, contractors, bridge builders, stone quarries, machine shops, factories, mines, blacksmiths, sawmills, paper mills, flour mills, cotton mills, elevators, electriclight plants, water-works plants, etc.

The Indicator for March.

Issued in the interest of the Otis Elevator Co. of New York and other cities is the In dicator for March, which is now being circu lated. Among other features the publica-tion presents a list of important installa-tions of elevators for which the Otis has recently contracted. Its contracts include the Subway Station, 191st St. and St. Nich-olas Ave. New York, two larges electrics the Subway Station, 191st St. and St. Nicuolas Ave., New York; two large electric passenger elevators, also the same at 181st St. and Nicholas Ave.; Braender Building & Construction Co., six electric passenger and four electric passenger and freight elevators; C. F. Colcord, Oklahoma City, four 1.1 traction passenger elevators; Cook Bidg., oklahoma City, three electric passenger elevators; E. A. Stumpf, Richmond, Va., one vators; E. A. Stumpt, Richmond, Va., one electric passenger elevator, one electric dumbwaiter, one hand S. W., one hand D. W.; Corby Building Co., St. Joseph, Mo., three electric passenger elevators and one hydraulic freight elevator; F. P. Burnap Stationery & Printing Co., Kansas City, Mo., one electric passenger elevator, one Stationery & Printing Co., Kansas City, Mo., one electric passenger elevator, one electric freight elevator and one electric D. W.; San Antonio (Tex.) Hotel Annex, one electric passenger and one electric service elevator; R. J. Reynolds Tobacco Co., Winston-Salem, N. C., two high-pressure plunger freight elevators; Avenue Corner Realty Co., St. Louis, Mo., three electric freight elevators and two electric passenger elevators.

Keystone Pressure Filters.

The many advantages derived from water filtration for mechanical purposes, are gen-

erally understood and appreciated. A method of water filtration which is claimed to be successful is the removal of insoluble par-ticles suspended in the water, such as silica, organic matter, etc., and the application of some reliable chemical to decompose the soluble lime and magnesia in the natural water and precipitate them in the form of phos-phates, in which state they can be removed, together with all other suspended matter, by passing the water through a properly pre pared bed of quartz or sand in a pre filter constructed of steel. In precotalogue the Keystone Chemical Manufac-turing Co., main offices, 301-302 Pennsylvania Bldg., Philadelphia, illustrates and explains this company's methods of producing pure clear water by means of its mechanical ap pliances for filtering water. Its products in clude pressure filters and water-softening plants for steam plants, paper mills, resilences, railroads, hotels, laundries, etc., its catalogue presents photographs of actual installations, showing their adaptability fit into corners and other remote places.

Indian Refining Co. at New Orleans

Among the leading independent oil producers and refiners is the Indian Refinir of Cincinnati, which owns extensive oil fields and refineries and factories in Kentucky, Illinois and elsewhere, besides distributing plants in about 100 cities. Recently this company has been developing an exp oany has been developing an export trade, and has accordingly acquired facilities to promote this branch of its enterprise. Last week the company purchased the Record Oli Refining Co. of New Orleans, and will utilize the plant at Chalmette for exporting. For some time operations will be continued under the old title without any change of officers except that Donald Slingluff (who has been with the Indian Refining Co. since its or-ganization five years ago) will be secretary-treasurer of the Record corporation and manager at New Orleans. The Record refin-ery will cease operating and be used for exort storage. It will be improved by the onstruction of a 300-foot wharf to facilitate loading oil into the largest ocean-going tank steamers. It is reported that the company will expend several hundred thousand dollars for New Orleans improvements in con nection with its purchase of the Record property. The Indian products are gasoline, naphtha, kerosene, engine oils, dynamo and cylinder oils, black oils, paraffine, grease, etc., besides liquid asphalt (manufactured by cret process) for building and preserving

Standard Road Oils and Binder.

That there is a growing desire for better oads is evidenced by the gatherings held to exchange ideas and discuss new and im proved phases of highway construction. At ich meetings a leading subject of disc on (in addition to the actual construct good roads) is the need of road oils a binders for suppressing dust and binding surface. Standard asphalt road oils, Stand surface. Standard asphalt road oils, Standard ard emulsifying road oil and Standard macadam asphalt binder have been widely used for these purposes. During 1909 the Standard asphalt road oils were applied to 35,000,000 square yards of road surface, and the Standard macadam asphalt binder was used the construction of 1,750,000 square macadam roads. Standard asphalt is a petroleum product containing per centages of asphalt varying from 30 per depends upon the season of the year it is applied, together with the percentage of asphalt it contains. The manufacturer recomposit it contains. The manufacturer recom-mends an oil that will readily flow at the season it is intended to be used, although it is stated experience has shown an applica-tion of oil in the spring will effectually lay the dust and preserve the surface for the greater part of the summer. Standard emulsifying road oil contains a certain quantity of petroleum asphalt. It is emulsified to euof petroleum asphalt. It is emulsified to eu-able it to mix with water, and necessitates frequent applications to produce a semi-permanent surface. It is claimed this oil is particularly applicable for park drives, boulevards and private grounds, as the results obtained are immediate, with no necessity of restricting traffic during the application. construction of macadam roads or of roads requiring special treatment with an asphaltic compound, Standard macadam asphalt binder is recommended. This material is a binder, and when it has penetrated the top course of stone is said to bind the surface together, thus resisting the damaging action of automobiles and the disintegration of the road. The Standard road oils and macadam asphalt binder are manufactured by the Standard Oil Co. of New York (Road Oil Department), 26 Broadway, New York. This company has issued an attractive catalogue describing the products and their application and illustrating, in colors, sec tions of road to which they have b plied.

FINANCIAL NEWS

The MANUFACTURERS' RECORD invites information about Southern financial matters, items of news about new institutions, dividends declared, securities to be issued, open ings for new banks, and general discussions of financial subjects bearing upon Southern

Review of the Baltimore Market.

Office MANUFACTURERS' RECORD

Brewing 1sts, 42. Brewing 1sts, 42.

Bank stock sold as follows: Marine, 42; Western, 37; Union, 121; Bank of Commerce, 31. Baltimore Trust sold at 166% to 166½: Maryland Trust preferred, 101; United States Fidelity & Guaranty, 138; Mercantile Trust, 140½: Maryland Casualty, 92¼; American Bonding, 78 to 79½.

Other securities were traded in thus:

securities were traded in thus: Other securities were traded in thus: Atlantic Coast Line of Connecticut, 245 to 242; do. do. 5-20s, 91; do. Consolidated 4s, 94% to 94½; do. 4s, certificates, 90; do. convertible debenture 4s, 100½; do. Connecticut 5s, certificates, 105½; do. South Carolina 4s, 97; Consolidation Coal, 114 to 114½; Lexington Railway 5s, 90; Northern Central Railway stock, 131 to 130; Virginia Midland 5th, 105; Charleston City Railway 5s, 103; George's Creek Coal & Iron, 120 to 121; Potomac Valley 5s, 105¼; Carolina Central 4s, 91 to Other Coal & Iron, 120 to 121; Potomac Valley 5s, 105½; Carolina Central 4s, 91 to 91½; United States Steel common, 84%; Petersburg 6s B, 117½; Wilmington & Weldon 5s, 111½; Alabama Consolidated Coal & Iron 5s, 80 to 81½; Milwauke Gas 4s, 1927, 90½ to 905½; Maryland Electric 5s, 97¾ to 98; Norfolk Railway & Light 5s, 99; Knoxville Traction 5s, 104; Virginia Midland 4th, 104½; Western North Carolina 6s, 10534; Alabama ern North Carolina 6s, 105%; Alabama Consolidated Coal & Iron common, 25; Baltimore Traction (North Baltimore division) 5s, 112 to 110; Fairmont & Clarksburg Traction 5s, 96½ to 96; Georgia, Carolina & Northern 5s, 105½; Baltimore, Sparrows Point & Chesapeake 4½s, 92; Georgia & Alabama Consolidated 5s, 104½; Washington, Baltimore & Annapolis common, 4; City & Suburban (Baltimore) 5s, 106½; Baltimore City 5s, 1916. W. L., 105½; Atlantic Consolidated Street Railway 5s, 104½; Detroit United 4½s, 82; Baltimore City Passenger 5s, 106; Western Maryland 4s, 85. Consolidated Coal & Iron co mon, 25

SECURITIES AT BALTIMORE.

Last Quotations for the Week Ended

April 21, 1010.		
Railroad Stocks. Par.	Bid.	Asked.
Atlanta & Charlotte		***
Atlantic Coast100	125	
Atlantic Coast of Conn 100	241	246
Fairmont & Clarksburg Trac 100	23	***
Georgia Sou. & Fla100	30	40
Seaboard Company Common100		6 241/2
Seaboard Company 1st Pfd100		
Seaboard Company 2d Pfd100		4416
United Rys. & Elec. Co 50	123	13
Bank Stocks.		
Citizens' National Bank 10	38	39
Drovers & Mech. Nat. Bank100	223	
121 4 37 41 1 D1- 200	19 (30)	4.40

Citizens' National Bank 10	38	39
Drovers & Mech. Nat. Bank100	223	
First National Bank100	135	140
Maryland National Bank 20	23	***
	177	
National Bank of Baltimore100	121	***
National Bank of Commerce 15	30	
National Exchange Bank100	155	160
National Howard Bank 10	131/2	
National Marine Bank 30	42	
National Mechanics' Bank 10	261/2	28
National Union Bank of Md 100	121	123
Second National Bank100	1941/2	198

Trust, Fidelity and Casu- alty Stocks.		
American Bonding Co 25	78	79
Balto, Trust & Guarantee 100	166	1671
Fidelity & Deposit 50		150
Maryland Casualty 25	90	921
Maryland Trust100		80
Maryland Trust Pfd100	100	106
Mercantile Trust & Deposit 50	140	146
** C	59257	4 400

Miscellaneous Stocks.		
Ala. Con. Coal & Iron		36
Ala. Con. Coal & Iron Pfd	100 50	75

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Con. Cotton Duck Common 50 5½ 65 Con. Cotton Duck Pfd 50 15 20 Con. Gas, Elec. Lt. & P. Com. 100 53 Con. Gas, Elec. Lt. & P. Pfd. 100 87 89 Consolidation Coal 100 110½ 113½	
Georges Creek Coal	2
Railrond Bonds. Alabama Midland 5s	2
Balto. & Harrisburg Ext. 5s, 1938. 104 Carolina Central 4s, 1949. 91½ 92 Charlotte, Col. & Aug. 7, 1910. 100½ Coal & Coke Railway 5s. 94 99	
Coal & Iron Railway 5s, 1920. 100 101½ Col. & Green. 1st 6s, 1916. 107 Florida Southern 4s, 1940. 94 Georgia & Alabama 5s, 1943. 104 104½	
Georgia, Car. & North, 1st 5s, 1929 105½ Georgia Pacific 1st 6s, 1922 112½ 11½ Georgia South. & Fla. 1st 5s, 1945 107½ 108	
Maryland & Penna. 4s, 1951	à
Petersburg Class A 6s, 1926. 105 108%	
Savannah, Fla. & West. 5s, 1934 110 Seaboard 4s, Stamped	
Seaboard & Roanoke 5s, 1916 100 Seaboard & Roanoke 5s, 1926 105 1051/ Silver Spgs., Ocaia & Gulf 4s, 1918	
Virginia Midland 2d 6s, 1911. 10034 1015, Virginia Midland 3d 6s, 1916. 1010 Virginia Midland 4th, 1921. 10444 Virginia Midland 5th 5s, 1926. 10445 1074, Virginia Midland 6th 5s. 10745	
Potomac Valley 1st 5s, 1341. 105 105 118 Richmond & Dan. Gold 6s, 1915. 105 105 107 118 Richmond & Dan. Gold 6s, 1915. 105 107	-
Wilmington & Weld. Gold 5s, 1935. 110 112 Street Railway Bonds. Anacostia & Potomac 5s, Gtd 103 103½ Augusta Ry. & Elec. 5s, 1940 101½	
Balto., Catons. & E. Mills 5s. 100 Balto. City Pass, 5s, 1911. 100 100¼ Balto. Sp. Pt. & C. 4½s. 91¾ 92 Balto. Trac. 1st 5s, 1929. 108 109	
Balto. Trac. (N. B. Div.) 5s, 1942 1104 Central Ry. Con. 5s (Balto.), 1932 .107 108 Charleston City Ry. 5s, 1923 102 103½ Charleston Con. Elec. 5s, 1999 90½ 95½ City & Suburban 5s (Wash), 1948 102 104	1
Fairmont & Clarksburg Trac. 5s. 96 964 Knoxville Trac. 1st 5s, 1928	
Maryland Electric Railways 5s. 97 97% Memphis Street Railway 5s. 98% 9952 Norfolk & Portsmouth Trac. 5s. 88 Norfolk Railway & Light 5s. 987%	
Norfolk Street Railway 5s, 1944 104 Richmond Traction 5s. 104% United Railways 1st 4s, 1949 85% Wunited Railways 1nc. 4s, 1949 59% United Railways Funding 5s. 83 83% 83%	
Miscellaneous Bonds. Ala. Con. Coal & Iron 5s	
Baltimore Electric os 3422 costa Consolidated Gas 6s, 1910. 100 100% Consolidated Gas 6s, 1939. 108 10852 Consolidated Gas 4½s. 90 92½c Consolidated Gas 4½s. 90 92½c Con. Gas. Elec. Lt. & P. 4½s. 83 85 C.BS. Brewing 1st 4s. 40½ 42½ G.BS. Brewing Inc. 5s 7	
GBS. Brewing Inc. 5s	
SOUTHERN COTTON-MILL STOCKS.	
Quotations Furnished by William S. Glenn, Broker, Spartanburg, S. C., for Week Ending April 25. Bld. Asked. Abbeville Cotton Mills (S. C.) 70 75	
Alken Mfg. Co. (S. C.) 90	
Arcadia Mills (S. C.) 98 Arkwright Cotton Mills (S. C.) 100 103 Augusta Factory (Ga.) 60 65 Avondale Mills (Ala.) 116 Belton Mills (S. C.) 137	
Brandon Milla (S. C.) 99 102 Cannon Mfg. Co. (N. C.) 135 Cabarrus Cotton Mills (N. C.) 130 135 Chadwick Mfg. Co. (N. C.) Pfd. 100 Chiguola Mfg. Co. (S. C.) 175 182	
Clifton Mfg. Co. (S. C.)	
Dallas Mfg. Co. (Ala.) 99 Darlington Mfg. Co. (S. C.) 85 92 D. E. Converse Co. (S. C.) 100 Drayton Mills (S. C.) 95 105	
Ensley Cotton Mills (S. C.)	1
Exposition Cotton Mills (Ga.) 200 Gafney Mfg. Co. (S. C.) 82 85 Gainesville Cotton Mills (Ga.) 75 90 Glenwood Cotton Mills (S. C.) 150	1
Gluck Mills (S.C.) 98 101 Granby Cot. Mills (S. C.) 1st Pfd. 35 45 Graniteville Mfg. Co. (S. C.) 160 166 Greenwood Cotton Mills (S. C.) 58 61 Grendel Mills (S. C.) 112 115	1 - 4 -
Hartsville Cotton Mill (S. C.). 175 Henrietta Mills (N. C.). 160 175 Inman Mills (S. C.). 104 King Mfg. Co., J. P. (Ga.). 90 93	1 2
Lancaster Cotton Mills (S. C.) 130 Lancaster Cot. Mills (S. C.) Pfd. 97 100 Langley Mfg. Co. (S. C.) 120 127 Laurens Mills (S. C.) 127	ti
Limestone Mills (S. C.)	r
American Spinning Co. (S. C.) 169 Anderson Cotton Mills (S. C.) 53 Arcadia Mills (S. C.) 100 Augusta Factory (Ga.) 60 Avondale Mills (Ala.) 116 Belton Mills (S. C.) 99 Cannon Mills (S. C.) 99 Cannon Mills (S. C.) 99 Cannon Mills (S. C.) 137 Brandon Mills (S. C.) 137 Cabarrus Cotton Mills (N. C.) 130 Chiquola Mig. Co. (N. C.) 145 Chadwick Mig. Co. (N. C.) 146 Cliiton Mig. Co. (S. C.) 175 Cliiton Mig. Co. (S. C.) 175 Cliiton Cotton Mills (S. C.) 130 Columbus Mig. Co. (S. C.) 130 Columbus Mig. Co. (S. C.) 100 Draylon Mig. Co. (S. C.) 100 Draylon Mig. Co. (S. C.) 100 Draylon Mills (S. C.) 100 Draylon Mills (S. C.) 100 Draylon Mills (S. C.) 175 Eagle & Phenix Mills (Ga.) 117 Easley Cotton Mills (S. C.) 175 Eagree Mig. Co. (S. C.) 55 Enoree Mig. Co. (S. C.) 55 Gainesville Cotton Mills (Ga.) 28 Exposition Cotton Mills (Ga.) 29 Granby Cot. Mills (S. C.) 160 Graniteville Mig. Co. (S. C.) 160 Greenwood Cotton Mills (S. C.) 175 Henrietta Mills (S. C.) 175 Henrietta Mills (S. C.) 160 Graniteville Mig. Co. (S. C.) 160 Inman Mills (S. C.) 175 Lancaster Cotton Mills (S. C.) 160 Inman Mills (S. C.) 104 Lancaster Cotton Mills (S. C.) 175 Monarch Cotton Mills (S. C.) 176 Monarch Cot	e

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Ala	t., E	Birmin	ugnai	11,	rue	Edg	CWO	MI S	gies

Ala., Birmingham.—The Edgewood Sales Co., capital \$25,000, is reported to have filed articles of incorporation to do a general real-estate business; R. W. Moon, president; G. Lynn Barber, secretary and treasurer, and G. T. Brazelton, vice-president.

Ark., Little Rock.—Official: The Postal Investment & Savings Co. of Little Rock incorporated; capital \$25,000; business is to begin immediately; incorporators, N. S. Bratton, president; O. S. Bratton, vice-president; Fred J. Smutz, secretary and treasurer; Earner E. Harris, Kinch Bottorf, Walter R. Smith and others.

Ark., Pocahontas.—The People's Real Estate & Abstract Co., capital \$5000, reported incorporated by H. L. Throgmorton, John F. James and C. E. Stuttle.

Fla., Fort Green.—Arcadia capitalists are reported organizing a new bank. W. G. Welles and associates are said to be interested.

Fla., Fort Pierce.—The St. Lucie Investment Co. has filed articles of incorporation; capital \$10,000. The incorporators and directors are A. J. Brewer, president; C. L. Faber, Jr., vice-president; B. B. Pyles, secretary and treasurer; A. K. Wilson, W. R. Jackson, Lee Griffin and W. W. Luce.

Ga., Atlanta.—Concerning the proposed organization of a trust company at Atlanta, an official letter says that the report is premature.

Ga., Albany.—The Georgia National Bank has been authorized to begin business; capital \$100,000; officers, F. F. Putney, president; W. R. Baldwin, J. M. McIntosh and William L. Davis, vice-presidents, and J. E. Toole, cashier.

Ga., Atlanta.—Official: The Sixth Ward Bank chartered; capital \$25,000; surplus \$5000. Business is to begin May 2 with Wm. Hurd Hillyer, president; Herbert L. Wiggs, vice-president, and William Mauldin, cashier.

Ky., Kirksey.—A new bank is reported organized with \$15,000 capital, business to begin about May 15 with W. P. Dulaney prestdent and R. L. Williams cashler.

Ga., Atlanta.—The American Bond & Mortgage Co., capital \$1,000,000, is reported to have made application for a charter. Incorporators, John D. Walker, Sparta; D. W. James, Blakely; J. R. Mercer, Dawson; T. E. Gurr, Bainbridge, and Chas. P. Glover of Atlanta.

Ga., Brewton.—The Farmers and Merchants' Bank, capital \$25,000, is reported incorporated by J. L. Keen, H. T. Bush, J. W. Jones, F. E. and J. H. Brantley, B. F. Maddox, N. W. Josey, J. M. Lovett, I. E. Thigpen, O. D. Cobb and J. H. Curl of Brewton and E. B. Jones of Dublin, Ga.

Ga., Elberton.—The Elberton Land & Abstract Co., capital \$10,000, with privilege of increasing to \$100,000, has made application for a charter; incorporators, L. M. Heard, S. W. Thornton, H. P. Hunter, J. H. Blackwell and W. D. Tutt.

Ga., Kennesaw.—The Kennesaw State Bank has been granted a charter; capital \$25,000; incorporators, J. G. Lewis, B. A., Fite, B. H. Carrie, C. F. Morgan, B. H. Hill, all of Kennesaw, and John D. Walker of Sparta.

Ky., Newport.—The Co-operative Savings and Building Association of Newport is reported incorporated with \$100,000 capital by Leonard Bauer, Joseph Moorman, Frank E. Seeds and others.

La., Thibodaux. — The Citizens' Bank of Thibodaux is reported chartered with E. N. Both, president and H. L. Simms cashier.

Both, president and H. L. Simms cashler.
Md., Libertytown.—The Savings Bank of
Libertytown is reported to have begun business with directors thus: Robert C. McCandish, president; James M. Sappington,
vice-president; Col. Chas. T. Leviness, Jr.,
Rev. Samuel J. Kavanaug, Charles E. Durbin, Dr. Otis B. Stone, George D. Browning,
Benjamin F. Hammaker, De Warren H. Reynolds, Eugene Hammond, F. Loraine Simpson, Sidney Sappington, Charles F. Smith and
R. Frank Sampington

nolds, Eugene Hammond, F. Loraine Simpson, Sidney Sappington, Charles F. Smith and R. Frank Sappington.

Md., Hampden, P. O. Baltimore. — The Hampden Bank, capital \$25,000, has organized with Robert P. Simpson, president; J. William Hill, vice-president and cashier, and Milnes Malloy, solicitor; Ex-Mayor Timanus and Albert H. Carroll, directors.

Miss., Baldwyn. — The People's Bank of Baldwyn is reported charted; capital \$15,000; incorporators, T. E. Gordon, L. A. Lollar, Wiley Steed and others.

N. C., Cameron.—The Southern Savings Bank of Wadesboro, N. C., is reported to have established a branch at Cameron. The officers are Dr. M. Matthews, president; Donald McDonald, vice-president; directors and finance committee, M. McL. McKeithea, H. P. McPherson and J. E. Phillips.

N. C., Denton.—The Bank of Denton, authorized capital \$7500, is reported chartered by C. C. Shaw and others.

N. C., Tarboro.—Official: The Farmers' Banking & Trust Co. chartered; authorized capital \$100,000, with \$25,000 paid in; incorporators, Geo. A. Holderness, C. A. Johnson and W. H. Powell. Business is to begin about June 1.

and W. H. Poweil. Business is to begin about June 1.

Okla., Chickasha.—Official: The Farmers' State Bank chartered and incorporated; capital \$50,006. Business began April 16 with M. F. Courtnay, president; T. J. Johns, vicepresident; Elmer W. Powers, cashier, and D. U. Esser, assistant cashier.

Okla., Foraker.—The Foraker Building & Investment Co., capital \$10,000, is reported chartered; directors, J. R. Roberts, J. D. Junn and F. M. Roberts.

Okia., Newkirk.—The Security Abstract & Title Co., capital \$3900, is reported incorporated with directors thus: R. W. Keilough, F. B. Dillard and R. R. Poe.

Okla., Willow.—The First State Bank is reported chartered with \$19,000 capital; diectors, D. A. Belman, J. H. Holden and M. A. South.

S. C., Eastover.—The Farmers and Merchants' Bank, capital \$25,000, has made application for a charter; directors, Edwin W. Robertson, president; Richard Singleton, vice-president; J. A. Byrd, cashier; A. G. Clarkson, Dr. W. J. Rivers, H. G. Betes, Dr. G. C. Stuart, J. C. Eason, Dr. L. M. Hook and F. G. Aull.

and F. G. Aun.
S. C., Furman.—The Farmers and Merchants' Bank of Furman has been granted a commission; capital \$15,000; petitioners.
E. A. Fripp, J. F. Causey, Jr., and W. P. Giles.

S. C., Greer.—The People's Bank of Greer is reported to have been granted a commission; capital \$15,000; incorporators, H. S. Stokes, E. D. Green, A. B. Holtzclaw, L. G. Miller, A. G. Howell, A. M. Moore, M. A. Drummond, J. D. Ashemoore and A. H. Miller.

S. C., Hartsville.—Official: The Farmers and Merchants' Bank incorporated; capital \$25,000; incorporators, H. J. Nettles, J. L. Powe, H. M. Parrott, C. C. Best and M. McDonnel. Business is to begin about August 1.

S. C., Sumter.—The Consolidated Insurance Co. is reported to have been granted a commission; capital \$10,000; incorporators, Richard I. Manning, Neill O'Donnell, Isaac Schwartz, W. D. Upshur, Archie China, Geo. D. Sham, L. D. Jennings, C. T. Mason, C. G. Rowland, Thomas Wilson.

Tenn., Erwin.—Official: The First National Bank of Erwin chartered; capital \$25,090; A. R. Brown, president, and R. M. Barry, cashier; directors, A. R. Brown, F. H. Hannum, W. S. Tucker, L. S. Tilson, W. B. McNabb, J. W. Haskins and Lee W. Sams. This succeeds the Unicol Banking & Trut Co.

Tenn., Nashvile.—The Employes' Income & Bond Co. of Davidson county is reported to have made application for a charter; capital \$150,000; Incorporators, William Peak, C. Hoyt Bradford, A. B. Mason, N. C. Jackson and J. M. Dykes.

Tenn., Nashvile.—The Cumberland Valley National Bank has begun business; capital \$360,000; J. N. Sperry, president; R. E. Donnell and L. Jonas, vice-presidents; T. G. Garrett, cashier, and V. J. Alexander, assistant cashier.

Tex., Dallas.—The Trinity Investment Co., capital \$19,000, incorporated by Robert S. Price, Cross R. Scruggs and John M. Dawson.

Tex., Eustace.—The First State Bank of Eustace, capital \$10,000, reported incorporated by M. E. Edgar, G. J. Cook and G. F.

Tex., Fort Worth.—R. T. Stuart is reported promoting a plan to organize a trust and casualty company with \$800,000 capital.

Tex., Mt. Vernon.—Official: The Mt. Vernon Loan and Building Association of Mt. Vernon chartered. Business is to begin at once with directors thus: M. L. Edwards, P. W. Malowey, G. W. Rutherford, E. W. Majors, Fred Mercer, A. J. Patton, L. A. Hollbird, F. J. Joyce and J. T. Harper.

Tex., Rochelle. — Official: The Rochelle State Bank Incorporated; capital \$15,000; I. T. Price, president; W. H. Cottle, vice-president, and O. E. Price, cashier. Business is to begin June I.

Tex., San Antonio.—The Southwestern Securities Co. reported incorporated with \$19,000 capital by G. D. Clymer, Edward J. Tousey, Edward Pittman and J. F. Onion.

Tex., Waco.—The Fidelity & Bonding Co. of Waco is reported to have filed its charter; capital \$200,000; incorporators, Don West, Sim Lewis and H. P. Jordan.

Va., Branchville.—The Citizens' Bank of Branchville, capital \$10,000, is reported organized with John W. Smith president, J. Dudley Woodard vice-president, B. W. Whych, Jr., cashier; directors, E. M. Harris, W. T. Grizzard, A. Panton, J. E. Harrison, B. P. Woodard, E. C. Davis, J. P. Fox, J. G. Stancell, J. Dudley Woodard, R. E. Raily, W. F. Howell and Dr. J. W. Smith.

Va., Suffolk.—Official: The National Bank of Suffolk chartered; capital \$140,000; surplus \$60,000; business to begin at once with James L. McLemore, president; R. A. Fretlow, vice-president; A. Woolford, cashier, and C. E. Hargraye, assistant cashier. This is a conversion of the Bank of Suffolk.

version of the Bank of Suffolk.

Va., Tappahannock.— Official: The South Side Bank incorporated; capital \$15,000. Business is to begin May I with directors thus: L. · E. Mumford, president; B. B. Brockinbrough, vice-president; A. A. Cralle, cashier; C. A. Gresham, assistant cashier; R. C. Phillips, J. L. Henley, Thomas E. Piakley, J. W. Faulconer, James M. Lewis, W. D. Hoskins and W. L. Crutchfield. This succeeds the L. E. Mumford Banking Co.

NEW SECURITIES.

Ala., Anniston.-May 23 an election is to b held, it is reported, to vote on \$25,000 of school and \$35,000 of floating debt bonds.

Ala., Birmingham.—Bids will be received y the Mayor until noon May 17 for \$400,000 of 5 per cent, 30-; bonds. H. E. Shre 30-year floating indebtednes oshire, Jr., Is City Clerk Ala., Decatur.-Reported voted:

Ala Greenville -Reported that an election will probably soon be held in Butler to vote on good-roads bonds.

Ala., Huntsville.-Press dispatches state that within the next 30 days Judge W. T awler will sell \$50,000 of 41/2 per cent. 30-year Madison county refunding bonds.

Ala., Pinckard.—Bids will be received until oon June 15 by A. M. Hudgens, Mayor, for \$.000 of 6 per cent, water-works bonds

Ark., De Queen.-Farson & Son of Chicag and New York are reported to have purchased \$40,000 of 6 per cent, 5-40-year I Queen special school district school bonds,

Ark., Fort Smith .- Official: The For Smith & Van Buren Bridge Co. will issue approximately \$600,000 of bonds in the near future for construction of bridge across the Arkansas River at Van Buren. Address Ray M. Johnston, secretary.

Ark., Lockesburg.—Reported that an election is to be held to vote on \$10,000 of high

the report that bids will be opened May? for \$43,000 of 6 per cent. 5-30-year water works and sewerage bonds; denomination \$1000. Address J. R. Gilbert, City Clerk.

Fla., Port Tampa City.—Press dispatch state that an election is to be held to vo on \$20,000 of water-works bonds.

Fla., Miaml.—The \$150,000 of 4½ per cent lade county road and funding bonds have been awarded as follows: C. I. Craigin, \$3000; George B. Cluett, \$2000; Henry Phipps. \$5000; John R. Bradley, \$3000, all at 95, with accrued interest, all of Palm Beach; C. L. Bagwell & Co., Jacksonville, \$137,000 at 96.

Fla., Pensacola.-An official letter confirm Fig., Pensacola.—An official letter confirms the report that an election is to be held June 11 to vote on \$159,900 of street-paying and \$100,000 of storm sewer 20-year bonds; interest not to exceed 5 per cent.; denomi-nation \$1900; dated August 1, 1910. Address R. M. Bushnell, chairman Board Bond Trus-

Fla., St. Petersburg.-An ordinance is reorted passed authorizing an issue nt. 30-year school bonds.

Fla., Tallahassee.—Reported that bids will be received by A. H. Williams, City Clerk, intil noon May 12 for \$15,000 of 5 per cent.

Ga., Columbus.-M. M. Moore, clerk, write an ordinance has been introduced Council authorizing the issuing of \$100,000 of bridge bonds, and will probably be passed at the meeting of Council on May 4. The bonds will then have to be validated and prepared.

Ga., Collegepark.—Official: May 30 election will be held to vote on \$55,000 of 5 per cent, water, sewerage and electric-light plant bonds: denomination \$1000. Address The Mayor and Council.

Ga., Grantville.-Reported voted: \$10,000 or 6 per cent. school-building bonds

Ga., Macon.-Reported that an election to be held in Bibb county to vote on \$500,000 of courthouse, road and bridge bonds.

Ga., Macon.-J. H. Hilsman & Co. of Atlanta, Ga., are reported to have been awarded the \$20,000 of paving and sewer bonds at

Ga., Shellman.-Local banks are reported e purchased \$13,000 of wat

Ga., Vineville (P. O. Macon).—Reported that \$200,000 of paving and sewer bonds have

Ky., Shelbyville.—Reported that an election vill probably be held in November to vote on \$75,000 of courthouse bonds.

Md., Baltimore.—At the fall election a \$5,000,000 new harbor extension loan will probably be voted on.

Md., Baltimore.-An election is to be held in the fall to vote on a \$1,000,000 lo ering and paving Jones Falls. J. Barry Maool is Mayor.

Miss., Eupora.—Reported that \$10,000 of per cent. 20-year sidewalk bonds have been purchased at 100.51 by Chicago parties,

Miss., Jackson.—Arrangements are repored leing made for the sale of the \$600,000 of

Miss., Lambert.-An ordinance is reported

to have been recently passed authorizing the Neill, chairman trustees Clover school disf \$5000 of sel

ssue of \$5000 or school bonds.

Miss., Lexington.—Parham Williams, County
lerk, writes that Holmes county has no
onded indebtedness, but will borrow \$15,999 cover current expenses for balance cer, payable July 1, 1911. County war fill be issued payable on that date rincipal and interest.

Miss., Pickens.—Reported voted: \$5000 of chool-building bonds. uilding be

Mo. Jonlin -The Mississippi Valley Trust Co. of St. Louis was awarded a mium the \$75,000 of school bonds.

Mo., Joplin.—C. E. Dennison of Cleveland, D., has been awarded at \$281.75 premium and accrued interest the \$10,000 of fire-apparatus onds.

emptroller, writes that bonds for imp ents of city market and tuberculosis hos ital failed to carry.

Mo., Moberly,-Reported voted: \$12,000 of ark-improver ent and \$20,000 of school dis ool-building b

Mo., Hannibal.-Official: Voted: \$80,000 of oer cent. 20-year school-building and sit-ber cent. 20-year school-building and sliv ids; denomination \$500 and \$1000. Address F. Chamberlain. Date of sale not yet set

Mo., l'almyra.—Official: May 3 city will tote on \$35,000 of 4½ per cent, 5-20-year bonds or purchase of water and light plant; de-tomination \$500. Address J. M. Sasey, City lerk. Date of sale not yet determined.

Mo., Webb City.-C. E. Denison & Co. 'leve'and, according to press dispatches, surchased the \$10,000 of 5 per cent, 10-20-year

N. C., Franklin.—Official: F. L. Siler, flayor, is receiving bids for \$20,000 of 6 per ent. 30-year water-works bonds. N. C., Hickory.—W. L. Clinard, secretary

and treasurer, is reported offering for sale \$25,000 of street-improvement bonds. rovement bonds

N. C., Mebanc.-Official: Bids will be ceived by J. T. Shaw, Mayor, until noon May 16 for \$15,000 of 6 per cent. 30-year street improvement bonds; denomination \$1000; dated June 1, 1910.

N. C., Jonesboro,—Bids will be received in til 7,30 P. M. May 9 by W. S. Murchischerk of the Board of Commissioners, \$15,000 of 30-year water-works bonds; inter st, 5 and 6 per cent.; dated July 1, 1916 londs will be issued in denominations to

N. C., Raleigh,-Bids will be received until noon for \$3,420,000 State of N per cent. 40-year refunding bot dated July 1, 1910. B. R. Lacy is State Treas

3 P. M. May 17 by T. L. Chisholm, Mayor, for \$25,000 of 4½ per cent. sewer bonds; de-

Okla., Altus.-H. C. Speer & Sons Company of Chicago are reported to have purchase \$100,000 of 5 per cent. Jackson county cour house and jall-construction bonds.

Okla., El Reno.-Bids will be received b A. La Bryer, Mayor, until 8 P. M. May 16 for \$250,000 of 5 per cent, 25-year water-works

Okla., Enid.-C. Edgar Honnold of Okla homa City has been awarded at \$400 pro \$200,000 of school bonds.

Okla., Fairfax.—It is contemplated to issue \$49,000 and probably \$50,000 of bonds for water-works and a sewerage system. A city officer says there is practically no opposi tion, but before voting the bonds it is sired to hear from bond buyers as to th character of securities desired and the met od of Issue. Harry S. Buford, City Cler may be addressed for further information.

Okla., Mountain View.—Official: Bids will be received until 8 P. M. May 4 by the board of trustees for \$15,000 of water-works exten sion, \$20,000 of sanitary sewer and \$10,000 o electric light 6 per cent. 25-year bonds. D. E. McBridge is town clerk.

Okla., Niles .- Breed & Harrison of Cincin ss dispatches, pur-cent. scwerage-dis according to press \$5000 of 4½ per ce posal plant bonds.

Okla., Stigler.—Official: Bids will be re-ceived until May 17, inclusive, for \$45,000 of water-works and \$30,000 of sewer 6 per cent. 25-year bonds. Address L. G. Gallaway,

Okla., Yukon. -Reported voted: \$33,000 of school-building bonds. It is stated an tion will be held in May to vote on s and water-works bonds. It is stated an elec-

S. C., Clover.-Official: Voted: \$10,000 of 5 per cent. 20-year school bonds; denom tion \$1000. It is expected to offer the b-for sale in about two weeks. Address Z

S. C., Easley.-Official: Voted-\$20,000 of bonds; interest not to exceed 5 per; denomination \$1000. The city is now open for bids. Address The Mayor

S. C., Marion.—Official: Bids will be re-eived by L. D. Lide, clerk of Road and Highway Commission for Marion County, til June 1, inclusive, for \$100,000 of 4½ per cent. 20-30-year highway bonds.

S. C., St. Matthews -Official : Rids will be cecived by J. H. Loryea, clerk Board of School Trustees, for \$15,000 of 5 per cent. 8-year school district No. 8 Calhoun county bonds for building and equipping school; denomination \$500; dated July 1, 1910.

Williamston.-Reported that application is to be made to the Council asking that election be held to vote bonds for waterworks and sewerage system.

Tenn., Highland Park, P. O. Chattan The City Council is reported to have passed an ordinance providing for \$100,000 of 4½ per cent. bends for improvement of streets.

Tenn., Johnson City.—Official: Bids will be received until 7.30 P. M. May 5 for from \$200,000 to \$375,000 of 5 per cent. 30-year water-works bonds; denomination \$1000; water-works bonds; denomination dated June 1, 1910. Address E. E. Ells Recorder and Treasurer; G. L. Sm

Tenn., Lonsdale, P. O. Knoxville.—Bids will be received until May 2 for the \$30,000 of 5 per cent. 30-year street, school and sani-tary improvement bonds. W. M. Copenhaver is Mayo

Tenn., Murfree sboro.-The Harris Bank & of Chicago is reported to have ourchased at \$3861 premium \$180,000 of 5 pe ent. 25-year Middle Tennessee normal-school

ported to have voted \$150,000 of bonds for purchase of State Fair Grounds.

Tex., Austin.-The Attorney-General has approved securities as follows: \$15.0 Eagle Lake school bonds; \$8900 of 5 per 10-year bonds of Irene Independent s district of Hill county.

Tex., Ballinger. — R. S. Griggs, County Judge, will receive bids until May 15 for \$17, 500 of 4 per cent, 5-40-year Runnels county courthouse and \$20,000 of 4 refunding cent. 5-40-year Runnels county bridge refund

Tex., Batesville.-Zavala county is r ed to have voted \$20,000 of road and bride

Tex., Corpus Christi.-Reported that the Mayor is negotiating with Norther for the sale of \$100,000 of sewerage

Tex., Derby.-May 14 an election is to be

Tex., Eastland.-Official: Voted: \$20,000 of Tex., Eastann.—Unicat: Voted: \$25,000 of per cent. school-building bonds; denomination \$500; date of maturity 1959. Date of sale not yet fixed. Address Henry Van Geem, secretary board of trustees.

Gause.-Reported floated: \$8

Tex., Galveston.—Reported that all bids received April 14 for the \$225,000 of seawall and \$50,000 of grading and drainage bonds vere rejected.

Tex., Lorena.-Reported voted: \$5000 of in endent school district scho Tex., Alice.-Reported voted: \$30,000 of im

Tex., Pearsall.-Reported that an election held April 30 to v

Tex., Lockhart.—Reported that an election s to be held May 21 to vote on \$25,000 of 5 er cent. 40-year bonds of road district No. per cent. 40-year b 2. Caldwell county.

Ringgold.-Reported voted: \$12,000 of 5 per cent. 40-year school-building be

Tex., San Saba.—Official: April 9 San Saba county voted \$75,000 of 5 per cent. courthouse conds; denomination \$1000.

Tex., Sterling City.—Reported voted: \$10,000 of jail and \$16,000 of road-improvement Ster ing county bonds

Tex., Trinity.-Reported voted: \$15,000 of chool-building bonds

-Reported voted: Bo orks and schoolh

Tex., Victoria.—An official letter confirm the report that \$12,000 of 5 per cent. 10-40 vear school bonds have been voted; denomi-nation \$500; dated April 11, 1910. J. K. Hex Date of sale not yet deter

Va., Norfolk.—Official: Bids will be re-reived until noon May 12 for \$482,000 of 4 per cent. 30-year sewerage, street, school and

other improvement bonds; denomination \$1000. Address H. S. Herman, City Treasurer

Va., Norton.—Official: J. J. Body, Mayor, will receive bids until 4 P. M. May 10 for \$70,000 of 5 per cent. 30-year street improvement, sewerage and town hall bonds; de-nomination \$500; dated June 1, 1910.

Va., Pulaski.-Reported that new bids are to be asked for \$69,900 of Pulaski county re improvement 5 per cent. bonds.

Va., Radford.-Official: May 17 an election is to be held to vote on 5 per cent selv nds: denomination \$1000. ess T. M. Turner.

Va., Waynesboro -- An election is to be held May 24, it is reported, to vote on \$9000 of water-system improvement bonds. W. 11. McCain and J. H. Michael have been appointed clerks.

W. Va., Hamlin.-An election is to be held in Lincoln county next November, it is reported, to vote on \$100,000 of courtho

W. Va., Keyser,-An election is to be held May 17, it is reported, to vote on \$25,000 per cent. 11-23-year bonds of Keyser Inde-pendent district, Mineral county.

W. Va., Williamson.—Reported voted: \$83,000 of bonds for paving and water-works and to redeem outstanding bonds.

At Stigler, Okla., blds will be received on or before May 17 for \$45,000 of water and \$30,000 of sewer 6 per cent. 25-year b Further particulars will be found in the vertising columns.

At Marion, S. C., bids will be received u All June 1, Inclusive, for \$100,000 of 4½ per cent. 20-30-year Marion county highway bonds. Further particulars will be found in the advertising columns.

At Mountain View, Okla., bids will be rerelved until 8 P. M. May 4 for \$45,000 of 6 per cent. 25-year water-works extension bonds. Further particulars will be found in the adcertising columns.

FINANCIAL NOTES.

The National Convention of Insurance commissioners will be held in Mobile, Ala., september 27, 28 and 29.

The People's State Bank of Longview, Tex. ported to have increased its capital from \$30,600 to \$60,000.

The Ralston Bank of Ralston, Okla., cording to press dispatches, I capital from \$10,000 to \$15,000. The Citizens' National Bank of Livingston

Fex., has changed its name to the First National Bank of Livingston. The Bank of Norway at Norway, S. C.,

ording to press dispatches, has voted to crease its capital from \$14,000 to \$20,000. The Weatherford Bank & Trust Co. of centherford. Tex., is reported to have

Weatherford, Tex., is reported to have changed its name to the First State Bank of Weatherford. The conversion of the Broadway Bank &

Trust Co. of Nashville, Tenn., Into the Broadway National Bank of Nashville has been approved; capital \$200,000. The eighteenth annual convention of the United States League of Local Building and Loan Associations will be held at Charlotte, N. C., May 25 and 26.

The conversion of the Farmers and Mer-chants' Bank of Fairview, Okla., into the Farmers and Merchants' National Bank of Fairview has been approved; capital \$25,000.

A report of the Department of Insurance and Banking just issued shows 584 State banks in Texas with a total capital of \$15,-914,200. Since January 1, 1910, there have been organized 160 new banks with \$1,437,030 Issued shows 584 State capital.

A. B. Leach & Co., bankers, New York advise that they have sold about one-half, or \$1,500,000, of their total purchase of \$3,000, of of first mortgage 6 per cent. bonds of the Parsons Pulp & Lumber Co. of Parsons, W. Va., guaranteed by the lumber firm of Wm. Whitmer & Sons, Inc., of Philadelphia. The bonds were placed with individual investors and with banks.

A statement of the condition of State and private banks doing business in South Carolina March 24, 1910, shows, loans and discounts, \$46,159,719; due from banks and trust companies, \$7,119,916; currency, gold, silver and other coin, checks and cash urces. \$61.162.510

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South and Water Sts., BALTIMORE, MD. South and Water Sts., BALTIMORE, MD.
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Resources

Loans and discounts, time	581,592			
United States Bonds, par			1,000,000	00
Other bonds, stocks, securities, etc			67,248	00
Banking house			650,000	00
Cash on hand		22		
Cash with other banks	1,291,098	94		
Cash with United States Treasurer	50,000	00-	2,090,969	16
Liabilities			\$7,760,062	17
Lidollilics				
(Daid in	\$ son one	00		

Capital Stock Paid in	\$300,000 00 700,000 00—\$1,000,000 00
Surplus fund, from earnings	250,000 00
Undivided profits, net	
Circulation	1,000,000 00
Reserved for taxes	
Individual deposits	
Bank deposits	1,621,794 50- 5,459,716 75
	\$7.760.060.17

O. L. COCHRAN	President.
J. T. SCOTTst	
H. R. ELDRIDGE2d	
W. S. COCHRAN	
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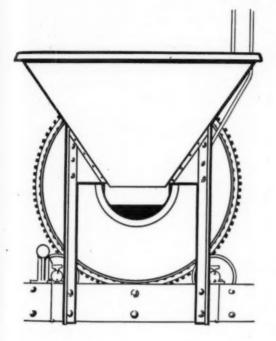
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mixed 27,000 cubic yards of concrete during a period of eight months, and at the end of that time was still in

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Acme Equipment & Eng'r's Co-	. # Boomer & Boschert Press Co
Acme Knitting Machine & Nee- dle Co	Borst & Company
Adder Machine Co., The	85 Bowen, Joseph E
Actna Engineering Bureau	20 Broderick & Bascom Rone Co. 1
Albany Steam Trap Co	Brown & Gelbal
Alberger Pump Co	Brown W T
Allegheny Steel Co Alpha Photo-Engraving Co	Browning Engineering Co., The
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American Machine Co	Carolina Cornice & Skyttest Co
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American Process Co	Carpenter Tap & Die Co., J. M.,
American Pulley Co., The	
American Radiator Co., Bundy Dept	Cary Spring Works. Case Threshing Mch. Co., J. 1.1 Casey Machine Co., D. L.
American Railway Supply Co	Casey Machine Co., D. L
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American Sheet & Tin Plate Co. American Spiral Pipe Works11	Central of Georgia Railway
American Steel & Wire Co 1	7 Charlotte Contract Co
American Supply Co. of Prov- idence, R. I	Chattanooga Boller & Tank Co.
American System of Reinforc-	Chattanooga Boiler & Tank Co. Chattanooga Iron & Wire Wks. Chattanooga Paint Co. Chesapeake Belting Co. Chesapeake Beron Works. Chesapeake Steamship Co.
American Valve & Meter Co 1	Chesapeake Iron Works S Chesapeake Steamship Co
American Water Softener Co ! American Well Works, The	Chicago & Alton Railroad Co
Anderson Machine & Foundry	Chicago Praumatic Tool Co 9
Ansonia Mfg. Co	Church & Dwight Co
Appulachian Exposition Co 78	Cincinnati Frog & Switch Co 9 Clark, Geo. M
Arnold Co., The 2	Classified Opportunities
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Ashland Fire Brick Co 44	Climax Mfg. Co
Atlanta. Birmingham & Atlantic Rwy119	Ulinton Wire Cloth Co
Atlanta Utility Works118	Coldwell-Wilcox Co
Atlanta & West Point R. R. Co 98 Atlantic Equipment Co 90	
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Atmospheric Condensation Co 10	Columbus Iron Works Co 11 Conard & Co., Thomas P 88
Austin Mfg. Co	Concrete Steel Co., The 26 Concrete Steel Engineering Co 26
Avery Co 107	Consolidated Cotton Duck Co 124 Consolidation Coal Co 42
Babcock & Wilcox Co 5	Columbian Iron Works. 186 Columbian Rope Co. 18 Columbian Rope Co. 19 Columbian Iron Works Co. 11 Conard & Co. Thomas P. 88 Concrete Steel Co., The. 26 Concrete Steel Co., The. 26 Concolidated Cotton Duck Co. 124 Continental Coal Corporation. 42 Continental Goal Corporation. 42 Continental Gin Co. 117 Contractors' Plant Mfg. Co. 117 Conway, J. W. 12
Badger & Sone Co., E. B116	Conway, J. W
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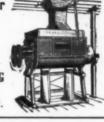
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BRICK AND TILE FACTORY

BRICK AND TILE FACTORY

WANTED—Brick and tile factory to locate at Avant, Osage county, Oklahoma; immense body of finest shale, affording supply for generations; soft running water free from alkall or other injurious ingredients; greatest supply of natural gas in State at 4 cents per thousand cubic feet; good railroad facilities; free shale for three years, thereafter nominal royalty; free factory site; absolutely no cash bonus. This proposition is probably best in Southwest. Scott Braden & Co., Oklahoma City, Oklahoma.

HARDWOOD PLANTS

JACKSON, TENNESSEE, would prove a profitable location for hardwood plants, vis., porch column plant, interior finish plant, because of its accessible location to vast timber lands. For further information write The Merchants' Association, Jackson, Tennessee.

COTTON MILLS

ABILENE, TEXAS, wants a cotton mill; inexhaustible supply of pure water; steam coal at \$1.50 per ton; splendid shipping facilities; near the geographical center of the State; one-quarter million bales of cotton produced within a radius of 45 miles of the city last year. Address Abilene 25,000 Club, Box 537.

COLEMAN, TEXAS, wants a cotton mill located there, and wants to get in correspondence with people who can put it in and do the work. We are located in the center of a fine cotton-producing country and have good railroad facilities for handling the raw material and finished product. This county was twelfth in the production of cotton in the State of Texas in 1908. We can control from this and adjoining counties 250,000 bales and can get 400,000 if we go after it. Call on or address Coleman Commercial Club, Coleman, Texas.

GLASS FACTORY

ATLANTA, TEXAS, WANTS A GLASS FACTORY.—We have an unlimited quantity of glass sand that analyses over 99 per cent. silica; natural gas in any quantity at satisfactory price; salt and lime manufactured close by; plenty of timber and water and other material; free site, free sand 30 years, exemption from city taxation 10 years, free artesian water to the first factory; transportation and rates all right. Write for full particulars on this and other factory propositions. Great opportunities. Cass County Industrial League, Atlanta, Texas.

CANNING FACTORY

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CANNING FACTORY.—Fine opening for a canning, preserving and pickle factory for canning all kinds of vegetables, putting up pickles and making catsups of various kinds, in town of 4500 population, with three trunk lines of railway, surrounded by fine farming lands producing all kinds of vegetables and oranges. Nothing of the kind here at present. Address Ten Thousand Club, Bay City, Texas.

WAXAIIACHIE, TEXAS, wants a creamery; has 10,000 population, and 80,000 in the county, with 1,276,000 within a radius of 100 miles; Ellis county produces more cotton than any other county in the world; with railroads radiating in five directions and reaching many populous cities; in the famous alfalfa belt of Texas; with an abundance of pure water, fine water-works and sewerage system; now spending \$250,000 on macadamized roads within a radius of 10 miles and leading into the city; with at least 1000 good milk cows to start on within a radius of five miles, and this number would possibly be quadrupled within a short time. Waxabachie has many beautiful homes, 10 church edifices; is the home of Trinity University; public high school affiliated with State University. To a competent, practical man, liberal inducements will be offered by the citizens of Waxabachie for the location of a good creamery here. Interested parties will receive full information by addressing Roy Connally, Secty. Waxabachie Comi Club, Waxabachie, Texas.

CAN FACTORY

WHY DON'T YOU manufacture shipping cans in Houston, Texas? Great opportunity; large quantities shipped in for local consumption; one plant alone consumes 100 carloads annually; other consumers are six coffee-roasting plants, two wholesale preserving plants and two wholesale preserving ruck and fruit growers also large consumers. The right time to get in is now. Write for information to Adolph Boldt, Secretary Houston Business League, Houston, Texas.

STEAM LAUNDRY

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ITASCA, TEXAS, a town of 3500 people, with a trade territory containing a population of 15,000, wants an up-to-date steam laundry with sufficient capacity to handle the business; country is peopled by prosperous, progressive people, who are strong believers in "home Industry." Itasca has \$150,000 cotton mill, \$125,000 oil mill, roller mills, slight plants, a large woman's college, will soon begin the erection of a \$35,000 high-school building, and has a great deal of money invested in churches. Address Board of Trade, Itasca, Texas.

FURNITURE FACTORY

FURNITURE FACTORY.—Free site and liberal stock subscriptions for location of furniture factory of any kind. Abundance of raw material and unexcelled transportation facilities. Address Chas. R. Rowe, Secretary Lufkin Progressive League, Lufkin, Texas.

MISCELLANEOUS

FREE SITES and concessions on taxes, water and fuel given to factories to locate in McAlester, Oklahoma, the manufacturing city of the Southwest; cotton, fire clay, brick shales, iron, limestone, lumber and many other raw materials. Ask the Commercial Club, McAlester, Oklahoma.

AUSTIN, TEXAS, offers special inducements to the manufacturer or commercial man seeking a profitable investment. The home seeker is given the best of attention and the most liberal values. Austin real estate is the most active of any in Texas. If you haven't time to come to Austin in person, write to Will L. Vining, the Secretary of the Austin Business League, who will give you all the information you want.

VICTORIA, TEXAS, head of navigation of Guadalupe River; center of cotton, corn, truck and citrus fruit growing district of South Texas; country rapidly developing; opportunities for many industries. If interested in the coastal section of Texas, write for booklet "D" to the Secretary of the Progressive League.

NAVASOTA, TEXAS, the town of great opportunities; railroads radiate in eight directions; sixteen passenger trains daily; six thousand population; navigation to deep water assured; ideal location for factories; abundance of raw material; we want a cotton mill, press-brick plant, packery, and furniture factory; great opportunities for investment in lands, town additions and various enterprises; investors carnestly solicited to personally investigate. They will meet with cordial co-operation. Address J. J. Felder of Business Men's Club, Navasota, Texas.

THE CITY OF FLORENCE, S. C., in the center of the great cotton and tobacco region of the Fee Dee section of South Carolina, has attractive propositions to offer for a brick-manufacturing plant, a carriage and wagon factory, a machine shop and foundry, lumber and woodwrking plant; finest distributing point in the State, with unsurpassed rallroad facilities; abundance of good brick clay. Such plant could control output in this the finest agricultural region in the Southeast. Correspondence solicited by the Florence Board of Trade.

FACTORIES WANTED.—Special inducements for manufacturing plants, particularly small industries, using wood, cotton or iron raw materials; mild, healthful climate; cheap freights, fuel, labor and living expenses. We mean business and will do our part. Business League, Columbus, Miss.

FREE — Industrial review of Muskogee, Oklahoma. If you are looking for a safe, judicious investment, good location or useful information, you will appreciate this book. It's full of meat. A card will bring it. Write tcday. Muskogee, Okla.

HOUSTON NEEDS a flour mill; free site on the great Houston Ship Channel; also free site for a hardwood manufacturing plant; unlimited raw material at hand; water transportation and seventeen rail lines, and the distributing center for the entire Southwest. Write Adolph Boldt, Secretary Houston Business League, Houston, Texas.

Houston Business League, Houston, Texas.

TUPELO, MISSISSIPPI, offers exceptional opportunities for a corn mill, supply store, tile plant, shirt and overall factory (denim and shirting made here), alfalfa mill, etc. Also wants wholease notion and dry-goods house, brick plant. Tradesmen and artisans will find many trades not represented in this progressive city. Local interest in worthy enterprises. Has two lines of railway, Frisco and Mobile & Ohio; new road surveyed and bonds voted for it. Wholeasle trade now million annually. Large territory to draw from. Best diversified farming country in Miss. Whites in majority. Farmers now ship alfalfa, poultry, stock. Lands reasonable. Good schools, neighbors and water. If you are looking for a location, investigate Tupelo, Get book of facts. Tupelo is in northeast Mississippl. Unexcelled climate. Address Secretary Business Club, Tupelo, Miss.

"TAMPA IS THE TOWN TO TIE TO."—

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Gateway to Gulf; nearest important American port to Panama canal; doubling population every four years; 100 per cent. city of South; big opportunities for investor, manufacturer, homeseeker; tourists' paradise. For literature address W. B. Powell, Secretary Board of Trade, Tampa, Fla.

INDUSTRIAL LOCATIONS.—A Tennessee town, well located on main line Southern Railway, at junction point, has openings at prese t for an ice plant, flour mill, a stave facto. y and other woodworking plants, with good supply of raw materials within easy distance. The town will co-operate with interested parties in the locations of plants. Refer to File 23,634. M. V. Richards, Land and Industrial Agent, 1300 Pennsylvania avenue, Washington, D. C.

DENISON, TEXAS, offers splendid opportunities for the manufacturer, investor and prospective settler, where coal, timber, oil and natural gas are to be had at exception ally low figures. Denison is the general division point of the M., K. & T. Raliway, with lines diverging in six different directions and mammoth shops. Labor, skilled and unskilled, plentiful. Excellent public and private school facilities. Okiahoma fields give extensive cheap fuel, and with natural inexhaustible supply of cheap water, Denison is the ideal factory location. Excellent transportation facilities furnished by five ralipodes. One-half cent to three cents per 1000 for water for factory purposes. Splendid location for all kinds of factories. Free sites furnished by the city. For further detailed information write to Roy M. Finley, Secretary Live Wires Association, Denison, Texas.

MANUFACTURERS. INVESTORS AND

MANUFACTURERS, INVESTORS AND PROSPECTORS will find in Lawton, Oklahoma, an ideal field for investments; free sites for manufacturing establishments on trackage for meritorious industries; a center of remarkable growth; 12,000 population; only eight years old; best water supply in Oklahoma; natural gas; one million dollars being expended in public improvements; fine educational facilities; forty-five miles of uniform concrete sidewalks; five miles of natural Oklahoma rock asphalt paving; splendid railroad facilities; raw material at hand. For further detailed information address L.P. Arnold, Secretary Chamber of Commerce, Lawton, Oklahoma.

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